REPORT

ON THE

Health of the County Borough of Belfast for the Year 1948

> S. BARRON. M.R.C.P.(I)., D.P.H., Medical Officer of Health





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COUNTY BOROUGH OF BELFAST

Health Committee 1948

Chairman:

Councillor STUART KNOX HENRY, J.P.

Deputy Chairman:

Alderman ANDREW SCOTT, J.P.

Aldermen:

THOMAS HENDERSON, M.P.
ROBERT PIERCE, J.P.
ANDREW SCOTT, J.P.
FRANCIS BRERETON LOAN, J.P.

Councillors:

STUART KNOX HENRY, J.P.
CLARKE SCOTT, J.P.
JOSEPH CORRIGAN.
JOHN P. HAYES.
JAMES KEATING.
JOHN KENNEDY, J.P.
ARCHIBALD GIRVIN McCLURE.
Major WILLIAM DUNCAN GEDDIS, J.P.
WILLIAM ERNEST GEORGE JOHNSTON, B.A.
DAVID IRELAND.
HERBERT JEFFERSON, M.A., Ph.D., J.P.

COUNTY BOROUGH OF BELFAST-1948

Summary of Vital Statistics

Area (Census 1937)	(Exclusive	of 1,262 acı	res of	
tidal water)				15,289 acres.
Population	• •	••	• •	trar-General for N.I., June,
7. T				1948)
Marriages Marriage Rate		• •		3,706 8.14
Births Registered		• •		9,744
	• •	• •		
Birth Rate average				
Births (notified)				11,404
Still Births (included)	314
Deaths			•	4,684
Death Rate	• •			10.29
Death Rate averag		•	-1948	12.4
Deaths of infants und	<i>-</i>	of age		441
Infant Mortality R		1048	• •	45 deaths per 1,000 births.
Average for the ten			• •	84 deaths per 1,000 births. 223
Neo-natal Deaths (un Neo-natal Death R		••		22.9 per 1,000 births.
Average for the ten				36.92 per 1,000 births.
Deaths from Pregn				1
Puerperal State	• •			13
				1.3 per 1,000 births registered
Deaths from Epidemi				117
Death Rate from E	_	seases	• •	0.2
		• •	• •	9
Deaths from Typhoid		• •	• •	1
Deaths from Scarlet I		• •	• •	Nil
Deaths from Whooping			• •	15
Deaths from Diphthe		••		4
Deaths from Diarrho		•		00
years of age)		• •	• •	66
Deaths from Dysenter	·	• •	• •	I 10
Deaths from Influenza			• •	10
Deaths from Tuber		the Respira		960
System Death Rate from 5	 Fuberculosis	of the Res	nira-	269
tory System	··	··	,p	0.59
Deaths from Bronchit				204
Deaths from Pneumon		• •		224
Deaths from Pleurisy				4
Deaths from other 1				
System (Tubercu			• •	75

The Right Honourable the Lord Mayor (Alderman Sir William Neill, F.A.I., M.P., J.P.) and the Aldermen and Councillors of the Belfast County Borough Council, acting as the Belfast County Borough Health Authority.

My Lord Mayor and Gentlemen,

I have the honour to submit my Annual Report for the year ended 31st December, 1948, on the Health Services administered by the Belfast County Borough Health Committee; the Sanitary Circumstances, Sanitary Administration and vital statistics of the County Borough and other matters upon which I consider it desirable to report.

The period covered by this Report includes a time during which vast changes have occurred in the organisation and administration of curative and preventive medicine, arising from the coming into operation on 5th July, 1948, of the Health Services Act (Northern Ireland), 1948. This very important and far-reaching social legislation closely follows the pattern set by the National Health Services Act, 1946, in Great Britain, and makes provision for a comprehensive medical, dental and nursing service for every member of the community—rich and poor alike; man, woman or child. The services are with certain special exceptions provided "free," that is to say, without specific charge. It must be remembered by everyone, however, that the cost of these great social services must be found somewhere, and that "somewhere" is the pocket of the tax-payer, and, to a much lesser extent, the rate payer. There are no "insurance" qualifications for "benefit" under these services, yet it behoves everyone of us to think carefully how they may be utilised effectively, efficiently and economically.

In addition to the nation-wide extension of the medical practitioner panel service—more fittingly described as the "family doctor care," the dental services and the supply of drugs and appliances controlled by the Northern Ireland General Health Services Board and the institutional and specialist services provided by the Northern Ireland Hospitals Authority, local authorities, through statutory Health Committees, became responsible under the 1948 Act for the provision of a wide range of preventive and special services, including the following:—

- Sect. 38 (2) (a) Arrangements for the care (particularly the dental care) of expectant and nursing mothers and young children.
- Sect. 38 (2) (b) Arrangements with medical practitioners and certified midwives for attendance at confinements of women in their own homes.
- Sect. 38 (2) (c) Provision of a Health Visiting Service.
- Sect. 38 (2) (d) Provision of a Home Nursing Service.
- Sect. 39 Vaccination against Smallpox and Immunisation against Diphtheria.
- Sect. 40 Health Education.
- Sect. 42 Prevention of illness and care and after-care of persons suffering from illness.
- Sect. 43. Provision of domestic helps.
- Sect. 44 Arrangements with other statutory and voluntary bodies providing health or allied services.

Some of these services had been in existence in Belfast for many years prior to 5th July, 1948, and our City has reason to be proud of having been in the van of progress in several important respects. It has thus been possible to preserve a continuity of service with staff already fully experienced in these matters. The work which has arisen since the coming into operation of the Act has chiefly centred

round the integration of the new services with the already existing public health services. In this, whilst we cannot yet claim to have completed all the requirements, much has been done to create the organisation necessary for the provision of these new services. It is one thing to have the legislative powers to set up certain services, but the recruitment and organisational problems are not easily and quickly solved by the mere placing of the Act on the Statute Book.

To summarise what has been achieved so far:-

Maternity and Infant Health

The Maternity and Nursing Services Section of this Report show the gradual but sound expansion of the measures for the care of expectant and nursing mothers and young children. The Maternity and Child Health Centres continued their vitally useful services with that efficiency to which we have long been accustomed and plans are not lacking for steady expansion of this important work.

Dental Care

The extension of the provision of dental care so as to include expectant and nursing mothers and pre-school children is not yet possible owing to the grave shortage of dental officers. It seems that some considerable time must elapse before a sufficient number of dentists will be available in public service to ensure that this priority dental service is fully available. Meanwhile we are proceeding with the establishment and equipping of the dental clinics in our Maternity and Child Health Centres, against the time when staffing difficulties are resolved.

Midwifery Services

The institution of the "free" domiciliary midwifery service was achieved in a very short space of time and may now be said to work satisfactorily. General medical practitioners and certified midwives were asked to enter into agreements to attend at confinements and to give ante-natal and post natal care as provided by the scheme. At the end of 1948, 189 medical practitioners and 90 certified midwives were under agreement to undertake domiciliary midwifery services in the City. It is intended to continue the midwifery side of this service on a "feeper-case, contract-for-services" basis in the meantime, until more experience has been gained of the extent of the firm demand for domiciliary as opposed to institutional service, before proceeding to the appointment of full-time salaried midwives.

Home Nursing

A new responsibility placed upon the Health Committee was that of the provision of Home Nursing. This service had been carried on for many years in Belfast by the Belfast Society for Providing Nurses for the Sick Poor and the citizens of Belfast know, from long experience, the excellent work which was done by that voluntary body and its "District Nurses." It was good, therefore, that the Health Committee were able to enter into an agreement with the Society to enable this work to be carried on, the cost being recouped by the Committee. Unfortunately, the Society has decided that as from 1st April, 1950, it can no longer continue to provide this service on an agency basis, so that the direct administration will have to be assumed by the Health Committee. While regretting that the Society cannot see its way to continue functioning, I am grateful for the continuance of their services during the difficult change-over period, prior to which there had been practically no time available for the setting up of the administrative organisation necessary to operate the Home Nursing Service. The difficulties of recruitment present themselves in this service as in others, and it is doubtful whether expansion beyond the present "home visiting" basis will be possible for some time to come.

Vaccination and Immunisation

The administration of the Acts relating to Vaccination against Smallpox, previously the responsibility of the Board of Guardians, was transferred to the Belfast Health Committee on 5th July, 1948, under the powers given to the

Ministry of Health and Local Government by the Public Health and Local Government (Administrative Provisions) Act (N.I.), 1946. Immunisation against Diphtheria had already been provided by the Belfast Public Health Committee since 1936, either by arrangement with general medical practitioners or by the Committee's medical officers, and on a voluntary basis. Vaccination of infants, which is still compulsory in Northern Ireland, was formerly carried out by public vaccinators and is now chiefly done by general medical practitioners. Where parents so desire, children may be taken to the Health Committee's Vaccination and Immunisation Clinics. In either case, the cost is borne by the Health Committee; general medical practitioners are paid a fee by the Committee for each vaccination and immunisation done by them—provided that no fee is accepted from the parent.

The amalgamation of the vaccination and immunisation services leads to a more economic use of public clinic facilities. It is disquieting to note that, in spite of the elaborate facilities provided, vaccination is only performed on approximately 50% of infants born in Belfast. Every effort has been made by press and poster campaigns, enforcement officer's visits and health visitors to overcome this apathy, with little apparent result; the last resort appears to be to invoke the law against those parents who have failed in their statutory duty.

Health Education

It has not yet been possible to build up an adequate health education service, chiefly because of the efforts required to arrange for the other, and more immediately pressing, new services. That is not to say that nothing has been done: the excellent work of instruction in mothercraft and child hygiene and diet, given at Maternity and Ante-natal Centres, has continued as heretofore. Poster publicity has been utilised on several subjects. The Health Visitors continue the work of health education in their individual contacts with mothers. The importance of Health Education has been recognised by the Health Committee's agreement to the appointment of a full-time Health Education Officer who will be able to devote himself to the co-ordination of all health education devices and methods and to the organisation of a comprehensive health education programme.

Prevention of Illness: Care and After-care

The provision of a service for the prevention of illness and for the care and after-care of those who are ill is, by its very nature, a problem of great difficulty: the possible scope of these matters is so wide; the possibility of over-lap with the welfare, hospital and general health services is so marked, and the whole subject is one which breaks ground so completely new to local authorities, that it can only be developed after very careful consideration. The functions so defined in Sect. 42 of the Act are permissive, and the Ministry of Health and Local Government had not issued any directions as to this service in 1948.

The Maternity and Child Welfare Section continued the narrowly defined aspect of this work which had already been in operation before the Act became law, namely, the follow-up of babies discharged from hospital after illness, especially after gastro-enteritis.

Domestic Help

Under the Maternity and Child Welfare Scheme, domestic help (better known as "home helps") had been provided in Belfast for some years past to those mothers who were being confined, who were in hospital, or who were ill and had young children to be looked after. In spite of the fact that the costs of this service were (and still are) recoverable from the users in accordance with the Social Services Scale, the demand for home helps, even for the category of case to which the service was limited, has far exceeded the supply. It is doubtful whether any great extension of the available panel of home helps can be made in the immediate future, to enable the provision of home helps to the additional categories brought in by the Act. Nevertheless, such extension is desirable at the earliest possible date, since it has become evident that numbers of aged bed-ridden and chronically ill people, who are at the present occupying the attention of the skilled nurses of the Home Nursing Service, could be adequately looked after by the home help.

Statutory and Voluntary Organisations

As mentioned under Home Nursing, one voluntary organisation has already been incorporated into the scheme for the provision of the local authority health services. Efforts will be made to enlist the aid of voluntary bodies in the new field of care and after-care and prevention of illness, but owing to the fact that several voluntary organisations are performing work of a similar kind, co-ordination is rendered difficult.

Much remains to be done to expand the new health services of your Health Committee on the basis indicated above, as experience is gained in their administration and operation. Integration with the allied health services provided by other and newer statutory bodies is at present a relatively uncharted sea: doubtless these organisations are still in the throes of getting established, and with further experience it will be possible to develop the present limited and sometimes imperfect contacts into a broader pattern of co-operation and co-ordination. No health service, no matter how perfect in theoretical design, can operate effectively and efficiently without the whole-hearted co-operation of those entrusted with its working—or without the same co-operation from every member of the community.

Whilst the new health legislation has imposed certain new functions upon the Health Authority, it has also removed certain former obligations, such as the provision of infectious diseases hospitals, the treatment of veneral diseases, and laboratory services, all of which are now the responsibility of the Northern Ireland Hospitals Authority.

Vital Statistics

Although Vital Statistics may not give a complete picture of the general state of health of a community, it is satisfactory to record that in our City during the year 1948, mortality rates were comparatively low; indeed, new low records have been established in connection with the general death rate, infantile mortality, and tuberculosis mortality. In the case of several of the infectious diseases new low records were established for incidence and mortality.

The population of the City, as estimated by the Registrar-General at 30th June, 1948, was 455,020.

The number of births registered was 9,744, giving a birth rate of 21.41 per 1,000 of the population. This compares with a rate of 23.3 for 1947. The number of marriages registered in 1948 was 3,706, as against 3,847 in 1947.

The general death rate of 10.29 per 1,000 of the population was the lowest on record for the City and compares favourably with 11.75 in 1947, 11.98 in 1946, and 11.63 in 1945. Table 2 shows the number of deaths from the principal causes, from which it will be seen that heart disease causes the greatest number of deaths whilst deaths from cancer, intra-cranial vascular lesions, pulmonary tuberculosis, pneumonia and bronchitis come next in order of numbers.

Deaths of women from diseases and accidents of pregnancy and childbirth numbered 13, giving a maternal mortality rate of 1.33 per 1,000 live births, compared with a rate of 1.24 in 1947, 2.23 in 1946, and 1.83 in 1945.

The infantile mortality rate was 45.26 per 1,000 live births—the lowest ever recorded for the City—as compared with 60 in 1947, 61 in 1946, and 84 in 1945. The average rate for the past ten years was 84 and it is very satisfactory to be able to record such substantial progress in the reduction of a rate which was formerly at a high level. Whilst the 1948 rate for Belfast was less than half of that of a few years ago (111 in 1943) it is still somewhat higher than the rates obtaining in some County Boroughs in Great Britain of equivalent population. The infantile mortality rate is largely dependent upon the number of deaths of infants under one month of age: in 1948 223 babies of this age died in Belfast, giving a neo-natal mortality rate of 22.89 per 1,000 live births, and accounting for 50.5 per cent. of the total infantile deaths.

Deaths from pulmonary tuberculosis reached a new low record of 269, giving a mortality rate of 0.59 per 1,000 of the population. Deaths from other forms of tuberculosis numbered 57, also a new low record. Turning to deaths from other

infectious diseases, it is satisfactory to note that there was only one death from typhoid fever and none from scarlet fever. There were only four deaths from diphtheria and there is no doubt that immunisation has played a considerable part in the reduction of the incidence and mortality rates of this disease in the past 13 years.

During the year the incidence of notifiable infectious diseases was well below the average. A reference to Table 9 will show that there was a decrease in the number of notifications of nearly all infectious diseases as compared with the previous year. Only 8 notifications of acute anterior poliomyelitis (Infantile Paralysis) were received as against 61 in 1947. Notifications of typhoid fever numbered 5 as compared with 43 in 1947. There was a reduction in the number of notifications of scarlet fever; practically all the cases were of an extremely mild type and many of these were nursed at home. The number of notifications of measles was 2,618 as compared with 6,468 in 1947.

Table 11 shows the number of children known to be immunised against diphtheria. At the end of 1948 it was estimated that only 32% of children under 5 years of age had been immunised. This is far from a satisfactory state of protection against this dangerous disease; it cannot be too strongly emphasised that non-immunised children are in greater potential danger of contracting diphtheria than if no children were immunised. The protected child, whilst himself immune to infection, may carry the causative germ and thus infect non-immunised children.

The end of 1948 brought the Public Health (Infectious Diseases) Regulations (N.I.) 1948, which came into operation on 2nd January, 1949. Many more diseases have been made notifiable and certain diseases which had been notifiable only in Belfast and a few other areas have been extended to the whole of Northen Ireland. With the additional information thus made available it may be possible in time to limit the spread of diseases which, whilst not of a high incidence, are nevertheless important in their effects.

School Health Services

For the first time, the Annual Report on the School Health Services, under the control of Dr. T. F. S. Fulton, is incorporated in my Report. In former years it was part of the Annual Report of the Director of Education. This marks the transfer of the administration of functions relating to the health and well-being of school children from the Education Committee to the Health Committee which took place on 1st April, 1948; it had been evident for some years that the administration of these important health services should be integrated with the other health services provided by the Health Authority. The transfer will facilitate the amalgamation and interchange of staffs and records.

I do not wish to depart from this section without commending the solid work and high achievements, in the face of many difficulties, of the Education Committee and the Director of Education in the building up of the School Health Services over the past 25 years. Thanks to the good offices of the Director of Education there is happy and comradely co-operation between the School Health Services and the teaching staffs of the schools, which might have been more difficult to build up quickly had the School Health Services been brought newly into being under the Health Authority. It augurs well for the future success of these services that this good relationship continues.

Here, as in other sections, the difficulties of recruitment and accommodation present many problems, which are more fully explored in Dr. Fulton's Report, and it is hoped that these may soon be resolved so that these services, so vital to the future citizen in his formative years will not be gravely handicapped.

Housing

Possibly the most urgent problem affecting the health of the community is the acute shortage of housing accommodation in the City. The prevention of sickness and ill-health which undoubtedly arises from overcrowding is beset with many difficulties. The shortage of houses, with resultant overcrowding and subletting of rooms, presents not only a danger to public health but must also cause

considerable psychological strain with the probability of ill-health arising therefrom. The housing question has been so thoroughly discussed and debated on local and national levels that it would serve little purpose to go into it at length in this report; suffice it to say that the needs of Belfast are great in this respect. In addition to the large number of new houses required to provide homes for those who have none of their own, many more will be required to replace "unfit" houses when clearance schemes become feasible.

The Corporation is making every endeavour to expedite the erection of new houses, but is now faced with the fact that building sites within the City are almost entirely taken up. Some means will have to be found for securing suitable lands for the erection of dwelling houses; it is obviously undesirable that the already inadequate open spaces for parks, playing fields and play-centres should be further encroached upon for this purpose.

Sanitary Administration

The report of the Executive Sanitary Officer shows that a large amount of work has been done in the abatement of nuisances. Difficulties in having repairs done to houses, whilst not so serious as in past years, are still in existence. In various parts of the City, many of the older working-class type of houses are steadily becoming outworn and are falling into disrepair because of the difficulty in obtaining materials and skilled labour for repair work. In addition, the cost of maintaining such property in habitable condition is not now an economic proposition and owners are reluctant to do more than the minimum of repair work. In some instances, the grave housing shortage resulted in families taking possession of disused huts and condemned houses, thus endangering the health of themselves and their children, and, in the case of former military encampments, creating a public nuisance in the neighbourhood.

The work of the Food and Drugs Inspectorate continues to produce a steady improvement in the conditions under which food is stored and sold. Increased powers are available under the new Public Health (Prevention of Contamination of Food) Regulations (N.I.) 1948, which came into operation at the beginning of 1949, and with these powers it is expected that still higher standards will be attained in regard to food premises and food supplies in the years to come.

Port Sanitary Administration

The section dealing with the activities of the Belfast Port Sanitary Authority gives full details of the measures taken to prevent the entry of infectious diseases from foreign ports, the usual work of ensuring the satisfactory sanitary state of vessels entering the port, and the detection of unsound foodstuffs at the point of entry into the Country. An outbreak of cholera in Egypt in February caused special attention to be given to the surveillance of passengers and crews on vessels or aircraft arriving in this country from ports in the vicinity of Egypt.

Although Belfast is rarely the first port of call for vessels arriving from tropical and sub-tropical countries, the speed of modern travel renders it necessary for port health staffs to maintain constant watchfulness lest a case of smallpox or other dangerous disease might be imported. The work of deratisation of ships rarely calls for comment but it may be mentioned that fumigation is now done entirely at week-ends—usually extending from Saturday afternoon to Monday morning.

In this part of my Report I should like to pay tribute to the willing help so freely given to the work of the Port Sanitary Authority by the officers of H.M. Customs, H.M. Immigration Office, the Belfast Harbour Commissioners and the shipping agents.

The work of the environmental health services was little affected by the advent of the new health legislation, at least so far as Belfast was concerned. Whilst this part of the Health Committee's functions has been very little in the public eye in the past two years, it goes on steadily and is of great importance to the health of our City. The smoothly-running machine rarely calls attention to itself and is sometimes forgotten in the hurly-burly of the installation of new machinery; I mention this to emphasise that it is none-the-less necessary.

From the pressing need of housing accommodation it may be pardonable to turn to the pressing need for accommodation for the consolidated services of the Health The three main parts now comprising the Committee's staffs, which were formerly under the control of three separate Committees of the Corporation, are still in separate localities, in each of which they are so overcrowded as to militate against efficient working. The difficulties of administrative control and co-ordination of these scattered sections are so great as to make it worth considerable effort to rehouse them centrally; it is hoped that this desirable achievement is not far distant in time. Expansion of our newer services is impossible without additional accommodation; provision of that requirement in piecemeal fashion will in the not so long run prove more expensive and inefficient than a concerted effort to provide adequate centralised offices. Amongst the changes which have occurred as a corollary of the establishment of statutory Health Committees is the relieving of Medical Officers of Health of the burden of administrative detail so that they are more free to concentrate upon the broader professional and technical problems. In Belfast this has been carried to the extent of also relieving the Senior Medical Officers of some of the administrative routine which has heretofore occupied much of their time. The organisation has been formulated; it now remains to provide the accommodation and facilities in which it may operate efficiently and economically.

In conclusion, I should like to take the opportunity of expressing my indebtedness and thanks to the Chairman and Members of the Health Committee for their encouragement and guidance on all occasions during a year in which additional responsibilities were undertaken and many changes occurred, claiming so much of their attention and time. The work of coping with these problems was considerably lightened by the active support and interest of the Members of the Committee. Equally helpful have been the Heads of the other Departments of the Corporation. To the members of my staff I must also express my gratitude for their unfailing loyalty and devotion to duty through a year beset with change and reorganisation.

I have the honour to be,

My Lord Mayor and Gentlemen,

Your obedient servant,

SAMUEL BARRON, Medical Officer of Health and Port Medical Officer. TABLE I.

COUNTY BOROUGH OF BELFAST

CAUSES OF DEATH AT DIFFERENT AGE PERIODS

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	3–6	48 28	001 :: 1 : : :: : : : : : : : : : : : :
	2–3 months	19 13	9 : : : : : : : : : : : : : : : : : : :
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TABLE I. continued.

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iled	Inter- national List Nos.	4-7, 11, 12, 23, 25 26, 29, 31 32, 36, 37 38, 43, 44	45	46	47	48	49, 51-55	56–57		28	09	61
Detailed	Indinati nati Li	4-7, 12, 2, 2 26, 2 32, 3 38, 4					49, 5	56			59, 60	1

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Detailed	Inter- national List Nos.	63 62, 64-66 67-71	73	77	83 84 85 86, 86, 87
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	CAUSES OF DEATH	Diarrhoea, Enteritis and Ulcera of the Intestines (2 years of and over) Appendicitis Hernia, Intestinal Obstruction Cirrhosis of the Liver Other Diseases of the Li and Biliary Passages, includ Biliary Calculi Other Diseases of the Digest System	nary a or Ver Pregy) ry Fas ladder ethra, state ied as n Preg
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	AUSI	Diarrhoea, Enteritis an of the Intestines (2 and over) Appendicitis Hernia, Intestinal Obs Cirrhosis of the Liver Other Diseases of and Biliary Passage Biliary Calculi Other Diseases of the System	X—Diseases of Urinary tal Systems (not V connected with Pre the Puerperium) Nephritis Other Diseases of the Ki Ureters Calculi of the Urinary P Diseases of the Bladde Tumours Diseases of the Prostate Orber Diseases of the Prostate Organs (not specified a or connected with Pre the Puerperium)
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iled	Inter- national List Nos.	120 121 122 124 125-127 115, 116, 118, 129, 129, 129, 129,	133 134 135 136 136 137
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	H	XI—Diseases of Pregnancy, Childbirth and the Puerperal State D is eases and Accidents of Pregnancy	NV—Diseases peculiar to the first year of Life Congenital Debility Premature Birth (still-births excepted) Injury at Birth (still-births excepted) Copted) Other Diseases peculiar to the first year of life	ental
	OEA1	gnancy, Ch Puerperal St Accidents mention to Childbirth of Childbe		(all
	0F 1	regne Puc Puc I Ac ut r ns ection Chil	culiar (still (still) culiar	accidents
	CAUSES OF DEATH	s of Pre and and without ditions e Infect uring dents ses of th	Diseases peculiar to the year of Life mital Debility tatlure Birth (still-births ted) ted) Diseases peculiar to the r of life	ent or hs Accided vehicles ants
	CAU	isease rth ar rs e s nancy n, c Cor ortiv n du un du herp	oiseas ear o ital I ure] d) at I d) iseas	-Violent Deaths obile Ac ar road v Accident
		XI—Diseases of Pregnar birth and the Puer. D is eases and Acc. Pregnancy . Abortion, without m Septic Conditions . Post-abortive Infection Infection during Child. The Puerperium . Other Accidents of and Diseases of the F	XV—Diseases pecul year of Life Congenital Debility Premature Birth (seepted) Injury at Birth (seepted) Other Diseases pecul year of life	XVIII—Violent or accidental Deaths Suicide Automobile Accidents (all adriven road vehicles) Other Accidents Other Violent Deaths
		X D A MI	Co In Pr	
Dotailed	Detailed Inter- national List Nos.	142-145 141 140 147 146,	158 159 160 161	163, 164 170 169, 171-195 165-168, 197-198
400	na na	142-1 1 1 1 1 1 146, 1146, 1148-		163, 169, 171- 165- 197-

TABLE II

The principal causes of deaths (in order of importance) were as follows:—

1. Heart Disease						1,281
2. Cancer						696
3. Intra-Cranial Vascular Le		• •	• •	• •		446
4. Pulmonary Tuberculosis5. Pneumonia and Broncho	Pneumo	vnia.	• •	• •	• •	269 224
6. Bronchitis	· ·	лна	• •			204
7 C 1 T)					• •	174
8. Violence						140
9. Premature Births (still bi		luded)				118
10. Nephritis	• •	• •	• •	• •	• •	91
11. Diarrioea and Enternis	• •	• •	• •	• •		11

TABLE III

Trend of mortality from the four principal causes of death in Belfast from 1939:-

YEAR	Heart Disease		Cancer	Pulmonary Tuber- culosis	Respiratory Tract
1939	 1,344		572	 365	 580
1940	 1,387		576	 412	 840
1941	 1,277		57 0	 426	 685
1942	 995		633	 369	 546
1943	 1,116		613	 367	 655
1944	 1,098	•	620	 354	 523
1945	 1,130		664	 326	 517
1946	 1,302		682	 343	 638
1947	 1,482		662	 281	 591
1948	 1,281		696	 269	 428

TABLE IV

Showing the number of deaths at various age periods, the percentage of the total number registered and the death-rates per 1,000 of the various age groups.

Age Group (Years)	Number of Deaths Males Females Total		1	Percentage of Total Deaths	Death Rate per 1,000 of population of this age group (not standardised)					
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	318 19 14 25 27 38 41 51 73 114 156 165 238 302 298 294	221 12 6 26 42 36 44 47 62 96 101 116 199 243 339 334	539 - 31 20 51 69 74 85 98 135 210 257 281 437 545 637 628	11.50 0.66 0.43 1.09 1.47 1.58 1.81 2.09 2.88 4.48 5.49 6.00 9.33 11.64 13.60 13.40	11.12 0.72 0.52 1.35 1.74 1.86 2.38 3.06 4.66 8.68 12.35 15.50 24.47 39.00 65.80 120.30					
80–84 85 and over	158 72	212 145	370 217	7.90 4.63	188.79 271.25					

TABLE V

Shewing the number of Deaths registered as having been caused by Phthisis and Diseases of the Respiratory Organs during the twenty years, 1929-1948.

YEAR	Population	Phthisis	Rate per 1,000	Diseases of the Respiratory System			Total Chest Affections
				Pneumonia	Others	Total	
1929	 415,151	485	1.2	680	761	1,441	1,926
1930	 415,151	436	1.0	357	482	839	1,275
1931	 415,151	452	1.1	518	47 9	997	1,449
1932	 415,151	448	1.1	539	461	1,000	1,448
1933	 415,151	429	1.0	583	605	1,188	1,617
1934	 415,151	398	0.96	434	421	855	1,253
1935	 415,151	389	0.93	597	445	1,042	1,431
1936	 436,000	406	0.93	450	373	823	1,229
1937	 438,112	414	0.95	503	405	908	1,322
1938	 443,500	348	0.78	465	294	759	1,107
1939	 443,500	365	0.82	316	357	673	1,038
1940	 444,500	412	0.93	404	539	943	1,355
1941	 444,500	426	0.96	330	446	7 7 6	1,202
1942	 444,500	369	0.83	325	298	623	992
1943	 425,000	367	0.86	451	291	742	1,109
1944	 430,800	354	0.82	315	286	601	955
1945	 435,900	326	0.75	274	339	613	939
1946	 444,687	343	0.77	338	405	743	1,086
1947	 450,000	281	0.62	326	355	681	962
1948	 455,020	269	0.59	224	283	507	776

TABLE VI

Showing the number of deaths from Epidemic Diseases during the ten years 1939-1948.

Whooping	22 22 22 33 31 15
Dysentery	
Diarrhoea	216 202 202 182 310 202 127 127 77
Influenza	50 161 88 18 50 21 16 54 54
Measles	13 150 17 11 10 5 5 9
Poliomyelitis	* -010100 400 4
Cerebro- Spinal Fever	. 1 1 1 1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
Puerperal Fever	97 8 9 1 1 4 5 8 5 1
Diphtheria	34 85 85 10 11 7 7 8
Scarlet Fever	
Typhoid Fever	1 4 1 1 1 1 1 1 1 1
YEAR	1939 1940 1941 1942 1943 1944 1945 1946

*Figures of deaths from Poliomyelitis not available in respect of 1939.

No deaths occurred from Smallpox or Typhus.

TABLE VII

Shewing the population, the number of Births, the Birth Rate per 1,000, the number of Deaths, the Death Rate per 1,000, and the natural increase during the twenty years, 1929-1948.

Natural Increase	2,437	3,613	3,099	3.410	2,610	3,035	2,809	3,077	3,208	2,121	1,742	4,686	5,202	5,280	4.784	5,001	5,216	5,060
Death Rate per 1,000	15.6	14.1	13.9	13.7	15.0	14.2	14.5	13.7	12.9	14.8	14.9	11.2	13.0	12.0	11.6	11.9	11.7	10.3
No. of Deaths	6,462	5,857	5,783	5,676	6,238	6,207	6,341	690'9	5,758	6,583	6,641	4,973	5,511	5,176	5,069	5,326	5,289	4.684
Birth Rate per 1,000	21.4	22.8	21.4	21.9	21.3	21.2	20.9	20.6	20.2	19.6	6.81	21.7	25.2	24.3	22.6	23.2	23.3	21.41
No. of Births	8,899	9,470	8.882 8.882	980'6	8,848	9,242	9,150	9,146	8,966	8,704	8,383	9,659	10,713	10,456	9,853	10,327	10,505	9.744
Population	415,151	415,151	415,151	415,151	415,151	436,000	438,112	443,500	443,500	444,500	444,500	444,500	425,000	430,800	435,900	444,687	450,000	455,020
	: :	: :	:	: :	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Year	1929	1931	1932	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948

TABLE VIII

Shewing the number of deaths from Cancer and other Tumours for the year 1948, as compared with the preceding five years.

Year			1	2	3	4	rc	10	15	20	25	30	35	40	45	50	55	09	65	70	75	80	85	06			
	Under	-	2	60	4	ro	10	15	20	25	30	35	40	45	50	55	09	65	70	75	08	85	06	and	M	Б.	Grand F Total
1948		1	1	က	27	1	-	П	2	-	υ.	ıc	16	28	45	65	72	106	120	97	84	39	16	3	354	358	712
1943			-	l	2	ı	-	2	1	-	4	7	16	25	49	89	99	86	106	103	58	20	ro	67	287	348	635
1944			1	1	_	_	. 67	-	က	က	œ	13	17	29	46	54	9/	100	108	91	57	19	9	က	315	322	637
1945		П	1	-	1		4		4	ro	61	10	13	36	52	45	69	95	97	126	78	40	6	-	323	365	889
1946		-	1	က	1	1	-	2	-	4	23	∞	19	20	48	48	69	66	129	130	75	28	10	4	340	361	701
1947		1	-	61	1	-	4	8	တ	4	ro	9	13	37	. 59	67	65	97	97	1117	73	32	9	လ	348	346	694
Totals	•	2	2	9	8	2	12	∞ o	12	17	21	44	78	147	254	282	345	489	537	267	341	139	36	12	12 1,613 1,742 3,355	,742	3,355
																						-					

It will be seen from the above table that the average number of deaths registered annually as having been caused by Cancer and other Tumours during the quinquennial period 1943 to 1947 was 671 (323 males and 348 females).

It should be noted that the above Table includes non-malignant tumours and tumours of undetermined nature.

TABLE IX

Showing by age periods and sexes the number of cases of Infectious Diseases notified, pursuant to the Infectious Disease (Notification) Act, 1889.

n Total	for .		1 6	. 931	4	. 107	2 108	. 25	∞
Age unknown	Ţ	-				:		:	:
A ank	M		:	:	:	:	-	:	:
45 Years and upwards	Ţ		-	က	:	-	35	:	:
45 y all upw	M		:	2	:	:	32	1	:
25 Years and under 45 Years	Ţ		П	4	:	က	14	:	4
25 Year and under 45 Year	M		:	œ	:	1	12	က	:
Years and nder Years	Ħ		:	19	:	œ	4	က	:
15 Years and under 25 Years	M		-	20	:	10	က	:	-
10 Years and under 15 Years	ഥ		_	92	:	7	:	_	:
10 Years and under 15 Years	M		:	57	:	9	-	:	:
5 Years and under 10 Years	Ţ		:	230	:	10	:	2	:
5 Years and under 10 Years	M		:	210	:	17	2		-
2 Years and under 5 Years	ſĽ,		:	122	:	16	:	4	-
2 Yea and unde 5 Yea	M		:	138	:	20	-	ဗ	-
1 Year and under 2 Years	[Ti		-	18	:	ဗ	:	-	:
1 Year and under 2 Years	M		:	17	:	23	_	က	:
Under 1 Year	ĮΉ		:	4	:	:	:	:	:
Un 1 Y	M		:	က	:	က	:	က	:
DISEASE			Typhoid Fever	Scarlet Fever	Puerperal Fever	Diphtheria	Erysipelas	Cerebro-Spinal Meningitis	Poliomyelitis

No cases of Typhus Fever, Simple Fever, Smallpox, Relapsing Fever, Membraneous Croup or Encephalitis Lethargica were notified during the year.

MEASLES - 2618 Cases notified

" " 999 HOODING CONCH

TABLE X

Shewing the number of cases of infectious diseases notified during the ten years 1939-1948, pursuant to the Infectious Disease (Notification) Act, 1889.

Erysipe- las	134	115	83	82	09	29	76	95	77	108	
Puerperal Fever	7	ō	8	12	2	'n	1	1	-	4	
Polio- myelitis	νo	61	7	ũ	61	5	20	8	61	&	
Cerebro- Spinal Meningitis	12	166	246	122	75	48	39	39	24	25	
Diph- theria	989	1165	683	. 427	322	217	213	220	115	107	
Scarlet Fever	1696	1266	453	778	1964	1679	768	753	1144	931	
Typhoid Fever	20	17	44	10	29	ıo	14	13	43	9	
	:	:	:	:	:	:	:	:	:	:	
	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	

Infectious Diseases

SCARLET FEVER

931 cases were notified during the year, but on investigation 43 were found not suffering from the disease, which made the total number that occurred during the year 888, an attack rate of 1.9 per 1,000 of the population.

The number of cases which occurred during the preceding year was 1,144, and the average number notified annually during the ten years 1938-1947 was 1,260

No deaths occurred during the years 1947-1948. The average number annually during the ten years 1938-1947 was 4.

DIPHTHERIA

107 cases were notified, but on investigation 20 were found not suffering from the disease, which made the total number that occurred during the year 87, an attack rate of 0.19 per 1,000 of the population

The number of cases that occurred during the preceding year was 115, and the average number notified annually during the ten years 1938-1947 was 471.

4 deaths occurred, equivalent to a case-mortality rate of 4.6 per cent., or a death rate of 0.008 per 1,000 of the population. The number of deaths in the preceding year was 3, and the average number annually during the ten years 1938-1947 was 23.

TYPHOID FEVER

6 cases were notified during the year, but on investigation 1 was found not suffering from the disease, which made the total number that occurred during the year 5, an attack rate of 0.01 per 1,000 of the population.

The number of cases which occurred during the preceding year was 43, and the average number notified annually during the ten years 1938-1947 was 20.

1 death occurred during the year. 7 deaths occurred in the preceding year; the average number annually during the ten years 1938-1947 was 1.

ERYSIPELAS

108 cases were notified during the year. The number of cases that occurred in the preceding year was 77, and the average number notified annually during the ten years 1938-1947 was 90.

CEREBRO-SPINAL FEVER

25 cases were notified during the year, 4 of which were found not suffering from the disease, making the total number of cases that occurred during the year 21, an attack rate of 0.04 per 1,000 of the population. No deaths occurred during the years 1947-1948. The average number occurring annually during the ten years 1938-1947 was 8.

POLIOMYELITIS

8 cases were notified during the year, an attack rate of 0.01 per 1,000 of the population.

The number of cases which occurred during the preceding year was 61, and the average number notified annually during the ten years 1938-1947 was 12.

No deaths occurred during the year. The number of deaths in the preceding year was 4, and the average number annually during the eight years 1940-1947 was 2.

MEASLES

2,618 cases of measles were notified during the year.

The number of cases that occurred during the preceding year was 6,468.

9 deaths occurred during the year, 42 occurred in the preceding year, and the average number annually during the ten years 1938-1947 was 47.

WHOOPING-COUGH

666 cases of whooping-cough were notified during the year.

The number of cases notified during the preceding year was 821.

15 deaths were caused by whooping-cough. In the preceding year the number of deaths from this disease was 35, and the average number annually during the ten years 1938-1947 was 32.

DIARRHOEA AND ENTERITIS

77 deaths were caused by diarrhoea and enteritis during the year, equivalent to a death rate of 0.16 per 1,000 of the population. Of this number 66 were children under two years of age.

123 deaths occurred during the preceding year and the average number annually during the ten years 1938-1947 was 202.

PUERPERAL FEVER.

4 cases of this disease were notified. The number of cases notified during the preceding year was 1, and the average number notified annually during the ten years 1938-1947 was 6.

EPIDEMIC DISEASES

117 deaths were caused by epidemic diseases during the year, equivalent to 2.5 per cent. of the total number of deaths from all causes, or a death rate of 0.2 per 1,000 of the population. During the preceding year deaths from epidemic diseases numbered 239, equivalent to 4.5 per cent. of the total deaths, or a death rate of 0.5.

1 or 0.8 per cent., of the total deaths from epidemic diseases were caused by typhoid fever; 4, or 3.4 per cent., by diphtheria; 9, or 7.6 per cent., by measles; 10, or 8.5 per cent., by influenza; 77, or 65.8 per cent., by diarrhoea and enteritis; 1, or 0.8 per cent., by dysentery; and 15, or 12.8 per cent., by whooping-cough.

CORRECTED DIAGNOSIS OF INFECTIOUS DISEASES FOR 1948

1 case of typhoid fever; 43 cases of scarlet fever; 20 cases of diphtheria; 4 cases of C.S.F.; and 4 cases of erysipelas were found not suffering from the disease notified. Of these, 5 cases of scarlet fever and 1 case of erysipelas were found to be suffering from measles. The remainder were found not to be suffering from any infectious disease.

DIPHTHERIA IMMUNISATION

During the Year, 6,756 persons completed a course of treatment against Diphtheria; of these 5,611 were immunised at clinics, schools and institutions by the Health Committee's Medical Officers and 1,145 by private practitioners with material supplied by the Department.

In addition 5,011 children received reinforcing injections; of these 4,940 were given by the Health Committee's Medical Officers and 71 by private practitioners.

During the year, 27 primary schick tests were made; of these 10 readings were found to be positive and 17 negative. Three post schick tests were made; all of these were negative.

TABLE XI.

		Totol I	at end of 1948	15,617	Equal to 32% of	dnors age-group	Total over 5 and	under 10 years at end of 1948	29,782	Equal to 69% of	this age-group	Total over 10 and	under 15 years at end of 1948	26,998	Equal to 70% of	this age-group		
	1948	66	2597	1236	523	352	562	655	360	186	61	34	33	17	20	6	12	6756
	1947	72	2475	1259	517	430	604	664	480	263	121	59	32	36	19	23	22	2076
er, 1936	1946	57	2329	1554	752	514	557	691	615	328	132	75	50	35	27	25	21	7762
ce Octobe	1945	33	2445	1474	614	358	542	810	829	360	170	71	44	18	40	27	29	7751
of children immunised since October, 1936	1944	69	2492	1329	628	455	663	965	802	492	251	107	44	33	47	26	25	8428
lren immı	1943	36	2576	1642	1043	266	1022	1133	896	902	382	222	81	73	78	40	37	11031
	1942	71	1634	1373	985	937	929	1123	1017	267	315	221	103	85	98	09	180	9896
e grouping	1941	33	906	1405	1258	1228	1262	1408	1356	995	647	433	200	213	171	141	78	11734
Showing age	1940	17	599	335	285	346	208	818	756	399	182	88	61	33	22	20	11	4180
Sh	1939	9	253	204	205	268	396	656	753	420	223	119	50	29	28	17	24	3621
	1938	21	413	363	450	534	069	1209	1539	1233	899	295	127	95	77	62	58	7834
	1936-37	27	362	470	539	527	814	1336	1281	905	645	506	358	289	192	136	148	8535
	Age at Date of Inoculation	Under 1 Year	l year	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years	14 years	15 years & over	TOTAL

VACCINATION AGAINST SMALLPOX

The functions of the Boards of Guardians under the Vaccination (Ireland) Acts, 1863 to 1879, were transferred to County and County Borough Health Committees as from 5th July, 1948, under S.R.O. 1948 No. 171.

During the period 5th July till 31st December, 1948:—

727 children were vaccinated at public clinics by the Health Committee's Medical Officers.

1,506 certificates of successful vaccination were received from general medical practitioners.

174 certificates of insusceptibility of the vaccine disease were received from general medical practitioners.

During the period 1st November till 31st December, 1948, the Vaccination Enforcement Officer paid 555 visits to homes of children in respect of whom no certificates had been received. The results of these visits are as follows:—

(a) Vaccinated by general medical practition evidence of vaccination shown	ners:	142
(b) Stated to be vaccinated: no evidence shown		19
(c) Not vaccinated		67
(d) Child ill or unfit		111
(e) Child removed from known address		86
(f) Child deceased	• •	9
(g) No admission obtained		118
(h) Other visits		3

TREATMENT OF SCABIES

During the year 973 treatments were carried out at the Scabies clinic at the Disinfecting Station, Laganbank Road.

PORT SANITARY AUTHORITY, BELFAST

Report for the Year 1948

The Corporation of Belfast as the Sanitary Authority was permanently constituted the Port Sanitary Authority for the Port of Belfast by the Local Government Board (Ireland) Provisional Orders Confirmation (No. 4) Act, 1900.

The jurisdiction of the Port Sanitary Authority extends to all that part of the said Port of Belfast which lies on the landward side of a straight line drawn from Blackhead, in the Larne Rural District, to Orlock Point in the Newtownards Rural District, together with the waters of the said Port of Belfast within such limits; and all docks, basins, harbours, creeks, rivers, channels, bays and streams within the aforesaid limits; and the place or places which may from time to time be appointed as the Customs Boarding Station or Stations for such part of the said Port; and the place or places for the time being appointed for the mooring or anchoring of ships for such part of the said Port, under the Authority of the Statutes in that behalf; and for the purposes of any regulations, as aforesaid, shall also extend to any ship which, in pursuance thereof or any direction thereunder, may be moored or anchored at the place appointed thereunder as aforesaid, or which may be on its way thither.

The expenses of the Port Sanitary Authority are contributed by the Urban and Rural Sanitary Authorities in the following proportions:—

The Corporation of Belfast	 	92%
The Carrickfergus Urban District Council	 	1%
The Holywood Urban District Council	 	1%
The Bangor Borough Council	 	1%
The Belfast No. 1 Rural District Council	 	$1\frac{1}{2}\%$
The Belfast No. 2 Rural District Council	 	$1\frac{1}{2}\%$
The Larne Rural District Council	 	1%
The Newtownards Rural District Council	 	1%

I—AMOUNT OF SHIPPING ENTERING THE PORT DURING THE YEAR

TABLE A

			Number	Inspected	Number recorded	Number of vessels on which	Number of vessels reported as having
	Number	Tonnage	By Medical Officer	By Sanitary Officer	to be defective	defects have been remedied	had during the voyage infectious disease on board
FOREIGN Steamers Motors Sailing Fishing	262 86 	524863 124753 	17 4 ··	262 86 	116 15 	105 14 	2 3
Total Foreign	348	649616	21	348	131	119	5
COASTWISE Steamers Motors Sailing Fishing	7179	3248422	10	2003	353	345	18
NON-TRADING Steamers Sailing	359	193908	:: /	::	::	::	::
Total Coastwise	7538	3442330	10	2003	353	345	18
Total Foreign and Coastwise	7 886	4091946	31	2351	484	464	23

II—CHARACTER OF TRADE OF PORT

TABLE B

(a) Passenger Traffic (other than coastwise) during the year 1948

Number of Passen	gers	Aliens	British	Total	Refused Leave to Land
Inwards by Ship		94	261	355	3
Inwards by Aircraft		79	2	81	Nil
		173	263	436	3
					Refused Leave to Embark
Outwards by Ship		121	173	294	Nil
Outwards by Aircraft		12	3	15	Nil
•		133	176	309	Nil

(b) Cargo Traffic

Principal Imports—Wheat, Barley, Oats, Linseed, Pollards, Timber, Flax, Ores, Paper, Pulp, Iron, Steel, Slates, Coal, Cement, Fertilisers, Oil, Flour, Bran, Cattle Fodder, Tobacco, Glass, Salt, Fruit, Vegetables, Wines and Ales.

Principal Exports—Machinery, Ropes, Linen, Yarns, Tobacco, Cigarettes, Potatoes, Grass Seed, Butter, Eggs, Pork, Poultry, Rabbits, Apples, Live Cattle, Whiskey and Aerated Waters.

(c) Foreign Ports from which Vessels Arrived

Abadan, 1; Abo, 1; Albafero, 1; Almeria, 1; Amsterdam, 2; Antwerp, 27; Aruba, 6; Bahia Blanca, 3; Bahrein, 1; Baltimore, 3; Balbriggan, 1; Barcelona, 1; Bergen, 1; Biera, 3; Bone, 2; Bordeaux, 1; Bremen, 10; Buncrana, 2; Buenos Aires, 9; Capetown, 1; Casablanca, 1; Constanza, 5; Corpus Christi, 2; Delfzyl, 1; Drogheda, 2; Dublin, 10; Dunkirk 4; Famagusta, 1; Fremantle, 2; Freetown, 1 Gandia, 1; Geelong, 2; Ghent, 42; Gdynia, 1; Gothenburg, 9; Haifa, 1; Hamburg, 15; Hamina, 1; Helsinki, 2; Helsingfors, 1; Huelva, 3; Hobart, 1; Holmsund, 1; Jaffa, 3; Karlsborg, 1; Kotka, 3; Kristianham, 1; Las Palmas, 4; Leghorn, 1; Le Pampi, 1; Lulea, 1; Mantyluto, 1; Monte-Video, 2; Montreal, 15; Melbourne, 1; New York, 15; Newport News, 1; Norfolk, 2; Novorossisk, 1; Nyham, 2; Odessa, 5; Oslo, 1; Ostend, 2; Parrsboro, 1; Pernis, 2; Pernouski, 1; Porsgruin, 1; Port Said, 1; Rafsoe, 1; Reykjavik, 3; Rosario, 1; Rotterdam, 36; Rouen, 7; San Lorenza, 1; San Nicolas, 2; Sandefjord, 1; Sfax, 1; Siglufjord, 2; Singapore, 1; Skien, 1; St. John, 9; Sundsvall, 2; Sydney, 2; Teneriffe, 6; Tel-Aviv, 2; Texas, 1; Trinidad, 2; Three Rivers, 1; Valencia, 2; Vancouver, 3; Weismar, 5; Yjmuiden, 1.

The nationality of the vessels which arrived at the port and were inspected is as follows:—

American, 14; Argentina, 1; Belgian, 2; British, 2,176; Danish, 13; Dutch, 86; Finnish, 3; French, 8; Greek, 1; Italian, 1; Norwegian, 18; Panamanian, 3; Polish, 1; Russian, 1; Swedish, 23.

MEDICAL INSPECTION OF ALIENS

Annual Return by the Medical Inspector of Aliens for the year ended 31st December, 1948

During the year the Medical Inspector under the Aliens Order, (the Port Medical Officer of Health) was requested to medically examine 8 aliens, all of whom were found to be in a satisfactory state of health and were not certified as being "undesirable" for medical reasons.

	Total	Number inspected by the Medical Officer	Number subjected to detailed Medica! examina- tion by the Medical Inspector	Lunatic Idiot or M.D.	Undesir- able for medical reasons	Physically incapac- itated	Suffering from acute infectious disease	Landing necessary for adequate medical examina- tion	Trans- migrants
(a) Total number of aliens landing at the Port		8				••	••	••	
(b) Aliens refused permission to land by Immigration Officer	3					• •			
(c) Transmigrants					1				
Total Aliens arriving at the Port	176	8			••	••		••	

Total number of vessels carrying Aliens—23 ships, 5 aircraft.

Number of vessels dealt with by the Medical Inspector, 3.

III—WATER SUPPLY (a) and (b) FOR PORT AND SHIPPING

The water supply for the port and shipping is taken from the mains which supply the City and the various districts surrounding Belfast. The supply is controlled by the Belfast City and District Water Commissioners, who have hydrants on all quays and wharves.

The water is subjected to regular chemical and bacteriological examination.

(c) Water Boats: there are no water boats at the port.

IV—PORT SANITARY REGULATIONS (NORTHERN IRELAND), 1948

1. Arrangements for Dealing with Declaration of Health Forms

Declaration of Health Forms as recommended by the Association of Sea and Air Port Health Authorities of the British Isles, are in use at the Port. Special instructions relative to the Port of Belfast are given on the fourth page, and a supply of these forms is distributed to H.M. Customs Officers and the Belfast Harbour Commissioners for the Pilotage Service.

A Declaration of Health Form, signed by the Master and counter-signed by the Ship's Surgeon (where one is carried) is received from each vessel arriving at the port from a foreign port. The Declaration of Health Form is received by the Customs Officer or the Port Sanitary Officer on the arrival of the vessel, and the answers to the questions contained in the Declaration are scrutinised and supplementary questions asked.

In cases where the Customs Officer first boards the vessel and the Declaration of Health is satisfactory pratique is granted.

If the Declaration of Health is not satisfactory the circumstances are immediately reported to the Port Medical Officer, who makes investigations before passengers are allowed to land.

During the year vessels arriving at the port were required to display the appropriate quarantine signals as laid down in these regulations.

2. Boarding of Vessels on Arrival

All vessels arriving from a foreign port are boarded on arrival by an Officer of H.M. Customs and an Officer of the Port Sanitary Authority.

3. Notification to the Authority of Inward Vessels requiring special attention (Wireless messages, land signals stations, information from pilots, Customs Officers, etc.)

Arrangements for the transmission of wireless messages from inward bound vessels, requiring special attention under the regulations, have been made with the shipping companies and agents in Belfast. Under these arrangements the shipping companies receive the wireless message required under Article 7 and forward the information to the Port Medical Officer.

Alternatively, or in addition, wireless messages are received directly by the Port Sanitary Authority; the telegraphic address "Portelth Belfast" having been registered for this purpose.

No land signalling system is in operation. Close co-operation exists between the Port Sanitary Authority and the Officers of H.M. Customs and notification of the arrival of vessels requiring special attention is received from the latter.

4. Mooring Stations Designated under Article 10

- (a) Within the docks:—With the concurrence of H.M. Customs and the Belfast Harbour Commissioners, the ordinary places of mooring, discharge, or loading in relation to inward vessels arriving from foreign ports have been designated "mooring stations" within the docks.
- (b) Outside the docks:—The outside mooring station is situate at Carrick Roads, about three-and-a-half miles from the nearest point of the docks. Infected or suspected ships, or other ships which may be unhealthy, are required to proceed to established mooring stations.

5. Particulars of any Standing Exemptions from the Provisions of Article 14

Standing exemptions from detention under Article 14 are granted (a) in the case of vessels arriving from a port or seaboard included in the list referred to in Article 11, unless such port or seaboard has been specially referred to in the current list or special instructions have been issued in regard to same: (b) in the case of vessels having on board one of the common infectious diseases, such as scarlet fever, measles, tuberculosis, mumps, diphtheria, whooping-cough, influenza or malaria.

Chickenpox or typhoid are not included in this list; the Port Medical Officer will see cases of these diseases, in case the former might be smallpox and the latter typhus.

During the year 19 contacts of smallpox and 3 of cholera were kept under surveillance at the request of other Sea and Air Port Health Authorities, who notified their expected arrival in Belfast.

6. Experience of Working of Article 16: Restriction on Boarding or Leaving Vessels

In carrying out the provisions of this Article during the year no difficulty arose, and it was not necessary to require passengers to furnish names and destinations, etc., as there were no cases of infectious disease on board any vessel arriving at the port, which required this procedure.

7. Arrangements made for

(a) Premises and Waiting Rooms for Medical Examination

There are at present no premises set apart as a Customs Examination Hall, waiting rooms and rooms for the medical examination of passengers, as there are no direct passenger sailings from and to this port from foreign ports. The premises which were erected and used for this purpose have been taken over and used as shed for the storage of goods in transit.

Passengers who arrive by direct cargo steamers from foreign ports are examined, if necessary, on board the particular vessel.

(b) Arrangements for Cleansing and Disinfection

After the removal of a case or cases of infectious disease, disinfection of the vessel is carried out by the Port Sanitary Officer. Clothing and other effects are removed to the Health Committee's Disinfecting Station, Laganbank Road, where they are subjected to steam pressure disinfection. The cleansing of persons is also carried out at this station, where suitable facilities have been provided for this purpose.

(c) Temporary Accommodation

There is no temporary accommodation for persons for whom such accommodation is required for the purposes of these regulations.

(d) Hospital Accommodation available for Plague, Yellow Fever, Smallpox, and other Infectious Diseases

The Northern Ireland Hospitals Authority make provision for the reception of cases of infectious disease at the Northern Ireland Fever Hospital at Purdysburn.

Separate premises situated in the hospital grounds, but self-contained and isolated from the other hospital buildings, are available for the reception of cases of smallpox.

(e) Ambulance Transport

The Port makes use of the facilities provided for ambulance transport in the City by the Northern Ireland Hospitals Authority.

(f) The Supervision of Contacts

Where contacts of infectious disease are members of the crew, they are kept under supervision by the Port Medical Officer.

In the case of passengers or crew landing, their destinations are ascertained. Should they proceed to a place outside Belfast the Medical Officer of the relevant district is notified.

8. Arrangements for Bacteriological or Pathological Examinations of Rats for Plague

Bacteriological and Pathological examinations of rats for plague are carried out at the Laboratory, Queen's University.

9. Arrangements for other Bacteriological and Pathological Examinations

Other Bacteriological and Pathological examinations are carried out at the Laboratory, Queen's University.

10. Arrangements for the Diagnosis and Treatment of Venereal Diseases among Sailors under International Arrangements

Upon the arrival of vessels in the port, information is given to the Masters as to the arrangements for the diagnosis and treatment of venereal diseases amongst sailors. Pamphlets are left on board which give the location and times of the V.D. Clinics. The pamphlets give warning of the dangers of the disease. Every encouragement is given for attendance at any of the following clinics:-

The Royal Victoria Hospital and the Belfast City Hospital.

At each of these clinics beds are available for intern treatment. No charge is made for intern or extern treatment of patients. When continuation of treatment at other ports is necessary, the sailor's "Grey Book" is filled in by the Medical Officer in charge of the V.D. Clinic, giving full particulars of the treatment he has received.

11. Arrangements for the Interment of the Dead

All arrangements for the interment of the dead are attended to by the shipping companies or their agents.

12. Other Matters, if any, Requiring or Receiving Attention

The infestation of ships by vermin, particularly cockroaches (steam flies) has been receiving attention during the year.

Quite a number of vessels which arrived at the port during the year showed signs of infestation in varying degrees. The Masters were informed and instructed to take the necessary action to eradicate the vermin. Several of the vessels had the infested parts fumigated with hydrogen cyanide whilst others were serviced by a local contractor with good results. Some vessels carry insecticides for the destruction of such vermin: unfortunately these insecticides are often used with poor results as the application is not persistent enough to completely exterminate the vermin, thus resulting in a recurrence of the nuisance.

TABLE C
Cases of Infectious Sickness Landed from Vessels

70	isease	Number of Case	s during 1948	— Number of Vessels	Average Number of cases for
D	isease	Passengers	Crew	concerned	previous 5 years
Influenza		 	1	1	1
Tuberculosis		 17		16	7
Chicken Pox		 	3	1	
Measles		 1		1	
Scabies		 	1	1	1

TABLE D

Cases of Infectious Sickness occurring on Vessels during the Voyage, but disposed of prior to Arrival

Disease			Number of Cases during 1948		Name has of Manale	Average Number
			Passengers	Crew	Number of Vessels concerned	of cases for previous 5 years
Scarlet Fever				1	1	
Chicken Pox	•			1	1	
Pneumonia				1	1	

No cases of plague, cholera, yellow fever or typhus fever occurred, and no plague infested rats were discovered during the year.

THE PARROTS (PROHIBITION OF IMPORT) REGULATIONS, 1930

During the year a Dutch vessel (M.V. "Antares") arrived at the port with one parrot on board. A notice was served on the Master prohibiting the landing of the bird. The bird was subsequently exported when the vessel sailed from the port.

V—MEASURES AGAINST RODENTS

1. Steps taken for Detection of Rodent Plague

(a) In Ships in Port: All vessels arriving from ports where plague is endemic are boarded by the Port Sanitary Officer as soon as possible after berthing. Enquiries are made as to the prevalence of rats on board, and as to whether any sick or dead rats were found during the voyage. The vessels are then inspected to ascertain the degree of rat infestation, and are periodically inspected during the time they remain in port, in order to ascertain if any dead rats have been found in the cargo. Traps are set with a view to obtaining rats for bacteriological examination.

(b) On Quays, Wharves, Warehouses, etc., in the vicinity of the Port: Instructions are given to the owners, occupiers, and employees on the quays that any rats caught or killed should be given to the Port Sanitary Officer who will forward them to the Laboratory, Queen's University for bacteriological examination.

2. Measures taken to Prevent the Passage of Rats between Ship and Shore

All vessels arriving from foreign ports are required to affix ratguards to all moorings, and maintain them so fixed during the time they are in port.

It is also recommended that the gangway, or any other communication with the shore should be raised at least eighteen inches from the ground.

3. Method of Deratization of Ships, etc.

- (a) Ships: Deratization of ships is carried out by fumigation with hydrogen cyanide. The fumigation is carried out by contractors, under the supervision of the Port Sanitary Officer; the minimum concentration being two ounces per thousand cubic feet with a minimum of two hours exposure. A longer period of exposure is more desirable.
- (b) Premises in the Vicinity of the Docks, Quays, etc.: The various shipping companies, warehousemen, and occupiers of premises in the vicinity of the docks, carry out, at the request of the Port Medical Officer, such works as may be necessary for the extermination of rats. Notices are issued, if necessary, under the Rats and Mice (Destruction) Act, 1919, and are served on the occupiers of the premises. Cats are kept in most of the stores and warehouses. Trapping and poisoned baits are also employed.

During the year the Belfast Harbour Commissioners renewed their contract with a local firm who are engaged in rat and pest disinfestation. This firm has been putting down poisoned baits in the sheds and on the lands under the jurisdiction of the Commissioners with effective results and a marked reduction in the rat population.

4. Measures taken for the Detection of Rats in Ships and on Shore

- (a) On Ships: Vessels arriving in the port are inspected by the Port Sanitary Officer, who ascertains whether or not they are infested with rats, and if so to what extent.
- (b) On Shore: Stores in the vicinity of the docks are inspected regularly for the detection of rats. Damage caused by rats to goods in stores was very small during the year.

5. Rat Proofing

(a) Extent to which Docks, Wharves, Warehouses, etc., are Ratproof

The docks and wharves on the County Antrim side of the port are so constructed as to be as nearly ratproof as possible. The floors of the sheds and warehouses, and the roadways leading thereto, are constructed of concrete, or granite setts laid on concrete.

On the County Down side the wharves are mostly erected on piles, and these afford a certain amount of harbourage, but as these wharves are used principally for the discharge of coal, ores, steel, etc., they are not so attractive to rats as those wharves where grain and foodstuffs are landed and stored.

(b) Action to Extend Ratproofing

- 1. In Ships—Efforts are directed towards sealing vulnerable places such as provision stores and pantries where food is kept. This is generally done by encasing with sheet metal and closing the means of access of rats between one apartment and another, so as to make them as ratproof as possible.
- 2. On Shore—Periodical inspections are made by the Port Sanitary Officer to see that the various premises in the vicinity of the docks are kept in good condition.

Most owners and occupiers of the premises are aware of the damage caused by rats to merchandise, and take every precaution to prevent the access of rats to their premises. Where no such precautions are taken, notices under the Rats and Mice (Destruction) Act, 1919, are served on the owners or occupiers concerned.

NUMBER OF RATS DESTROYED DURING THE YEAR

TABLE E

(1) On Vessels

Number of Rats	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in Year
Black	29	24	63	18	9	90	15	23	28	19	26	10	354
Brown													
Species not recorded													
Examined	20	16	40	18	9	47	13	23	20	16	20	10	252
Infected with plague													

TABLE F

(2) In Docks, Quays, Wharves, Warehouses

Number of Rats	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in Year
Black	15	13	18	10	11	11	25	23	24	10	10	12	182
Brown													
Species not recorded													
Examined	15	13	18	10	11	11	25	23	24	10	10	12	182
Infected with plague													

The number of rats destroyed in the docks, quays, wharves, etc., as recorded in Table F above refers to those which came to the notice of the Port Sanitary Officers.

The sheds and stores on the Harbour Commissioners estates are baited regularly by a firm of contractors employed by the Harbour Commissioners, for the destruction of rats, but the number of rats destroyed is not available, as no estimate is given by the contractors.

Owing to the intensive baiting the number of complaints regarding damage by rats to merchandise in the sheds, etc., is very small, and the number of baits left untouched would indicate that the rat infestation is very limited.

TABLE G

Measures of Rat Destruction on Plague "Infected" or "Suspected" vessels, or vessels from plague infected ports arriving in the port during the year.

Total Number of such Vessels Arriving	Number of such Vessels Fumigated with S.02	Number of Rats Killed	Number of such Vessels Fumigated with HCN	Number of Rats Killed	Number of such vessels on which Trapping Poisoning etc., were Employed	Number of Rats Killed	Number of such Vessels on which Measures of Rat Destruction were not Employed
18			1	10	6	34	11

TABLE H

Deratization Certificates and Deratization Exemption Certificates issued during the year.

		No. of Deratization Certificates Issued					No. ot Deratization	Total	
Nett Tonnage	Number of Ships	After		Total	Total Exemption	Certificates			
	Of Ships	HCN	Sulphur	HCN and Sulphur	Trapping Poisoning etc.		Certificates Issued	Issued	
Ships up to 300 tons	2	2					2	2	
Ships from 301 to 1000 tons	18	2				2	16	18	
Ships from 1001 to 3000 tons	6	4				4	2	6	
Ships from 3001 to 10,000 tons	22	6				6	16	22	
Ships over 10,000 tons	3	3				3		3	
TOTAL	51	15				15	36	51	

VI—HYGIENE OF CREWS SPACES

TABLE J
Classification of Nuisances

Nationality of Vessel	Number inspected during 1948	Defects of original construction	Structural defects through wear and tear	Dirt, vermin and other conditions prejudicial to health
British Other Nationalities	2176 175	24 4	52 5	409

Defects found were as follows:—			
			Other
		British	Nationalities
Defective Portlights		26	1
Defective Scupper Pipes .		12	—
Defective Decks over Forecastle .		4	-
Defective waterclosets .		2	
Defective Heating Stoves .		2	3
Defective flushing to watercloset .		4	1
Defective floors in galley .		2	_
Defective ventilation to Crews' qua-	rters	6	4
Defective flooring to waterclosets		2	_
Defective domestic water supply to	crews' space	1	_
Defective Outlet Valve to water clo	set	1	_
Defective wastepipes to wash basins	5	4	_
Defective stanchions to bunks .		1	_
Defective washhand basins .		2	_
Defective seats to waterclosets .		2	_
Defective bulkhead in crews' space		1	_
Defective galley stove .		1 .	_
Defective flue to heating stove .		1	_
Verminous bedding		2	_
Dirt, vermin and general uncleanlin	less	409	28

During the year it was found that the cleanliness of the officers' and crews' accommodation had maintained its usual fairly high standard, except in the case of a few of the older ships where facilities are inadequate. In some of these cases, particularly where the crews do not change ship frequently, the individual appears to take a keener interest in the cleanliness of his quarters and personal hygiene. It is suggested that the employment of a greater number of "Peggys" would tend to raise the standard of cleanliness to a much higher level.

VII—FOOD INSPECTION

1. Action taken under the Public Health (Imported Food) Regulations, 1937, the Public Health (Imported Milk) Regulations, 1937, and the Public Health (Preservatives, etc., in Food) Regulations, 1927-1940.

During the year all sheds and warehouses at the port where food is landed or stored were inspected regularly for the detection of unsound food. The quality of the food which arrived at the port during the year maintained a very high standard.

Seizures

		cwts.	qrs.	lbs.
1 Keg of Pickled Pork		 1	0	0
1 Keg of Pickled Pigs Tro	tters	 0	2	9
1 Keg of Sausages		 0	3	16
1 Chip of Mushrooms		 0	1	2
4 Chips of Pears		 1	0	0
2 Tins of Hams		 0	1	2
2 Tins of Luncheon Meat		 0	0	3

Total .. 4 0 4

No milk is imported, but large quantities of fresh milk are exported to cross-Channel Ports by the Ministry of Agriculture for Northern Ireland.

2. Shellfish—Information respecting any shellfish beds or layings within the jurisdiction of the Port Sanitary Authority, stating whether they are, in the opinion of the Port Medical Officer, liable to pollution.

There are no layings of shellfish within the jurisdiction of the Port Sanitary Authority.

Report on any action taken under the Public Health (Shellfish) Regulations, 1936, or the Sale of Food and Drugs Acts (N.I.).

Under the Belfast Corporation Act, 1930, it is an offence to gather any shellfish within the jurisdiction of the Port Sanitary Authority.

No legal proceedings were instituted under this act during the year.

Bacteriological Examinations

No bacteriological examinations were carried out during the year.

REPORT OF THE EXECUTIVE SANITARY OFFICER

To

The Medical Officer of Health.

Sir.

I beg to submit my report on the sanitary administration of the City for the year 1948.

The large number of complaints received regarding structural and sanitary defects in dwelling houses necessitated concentration by the district sanitary officers upon this important branch of work. Shortage of certain building materials caused delay in securing repairs and renewals, but the position became somewhat easier towards the end of the year, when a number of materials were removed from control.

During 1948 additional duties were imposed upon the staff as follows:—

Enforcement of Section 22, Shops Act (N.I.), 1946, relating to the arrangements for health and comfort of persons employed in shops; under Section 30, Medicines, Pharmacy and Poisons Act (N.I.), 1945, relating to the registration of persons licensed to sell certain poison for agricultural and horticultural purposes; By-Laws made under Section 2, Hairdressers Act (N.I.), 1939, which provide for a better standard of hygiene in premises where the business of barber or hairdresser is carried on.

Sewerage and Sewage Disposal

All areas of the City, with the exception of isolated premises on the outskirts, are connected with the sewerage system. Sewage is collected by means of high and low level main sewers and discharged into the outfall works situated adjoining Belfast Lough. It is screened and passed through detritus chambers before entering the sedimentation tanks. Sludge from the sedimentation tanks is pumped to a sludge steamer and is taken to sea and deposited in deep water outside a line drawn between Blackhead and Orlock Point. The effluent from the sedimentation tanks goes to the storage ponds and is discharged during the first three-and-a-half hours of ebb tide at a point one mile from shore. The system of sewerage and sewage disposal is under the control of the City Engineer and Surveyor and functions efficiently.

Refuse Collection and Disposal

This service is carried out by the City Surveyor's Department by direct labour, and there are approximately 127,000 ashbins in use in the City. Apart from holiday periods, ashbins are emptied on a weekly basis, while in the City Centre a daily service exists. During the year the supply of new ashbins was reasonably good and these can be obtained by the public from the Corporation on terms of hire.

Refuse is disposed of mainly by tipping in areas geographically selected to facilitate efficient operation of the scheme. A small portion is dealt with at the Refuse Destructor, Laganbank Road. From April until September tipping areas and ashbins were treated with D.D.T. liquid insecticide in order to reduce flybreeding.

Good co-operation exists between this Department and the Cleansing officials on matters affecting public health, and the service has improved considerably since the war with the additional supplies of ashbins available. Details of action taken by the Sanitary Officers under Belfast Corporation Act, 1930, will be found under the heading "Provision of Ashbins."

Water Supplies

Control of the public water supply is vested by Act of Parliament in the Belfast City and District Water Commissioners, who supply all domestic water, with the exception of a few houses on the outskirts of the City. The supply is derived from three main catchment areas:—

- 1. The Mourne Supply from the Mourne Mountains about 40 miles from Belfast;
 - 2. The Woodburn (Carrickfergus) Supply, Co. Antrim;
 - 3. The Stoneyford Supply about 10 miles from Belfast.

Routine bacteriological examinations of all waters were made by Professor W. J. Wilson, B.A., M.D., D.Sc., D.P.H., Director of Water Examinations to the Water Commissioners, and a copy of the analysis and results were submitted monthly to the Medical Officer of Health for his information. In addition five samples were taken from premises in the City by the Sanitary Officers and submitted to the Municipal Laboratory for bacteriological examination. The quality of the water supplied during the year was satisfactory.

SANITARY SECTION

PROCEEDINGS UNDER THE PUBLIC HEALTH ACTS

Nuisances

Complaints received		41,151
Nuisances discovered		24,219
Total number of inspections made in respect	of	
nuisances		133,791
Number of notices issued		26,514
Number of sanitary improvements carried out		41,431
Summonses issued		1,264
Court Orders obtained		50
Disobedience Summonses issued		4

By-Laws made under Section 23, Public Health (Amendment) Act, 1890. (Relating to keeping Water Closets supplied with sufficient water for flushing).

	Number of notices issued			266
	Number of summonses issued	•	• •	18
	Keeping of Animals			
	Number of stables			328
	Total number of inspections			3,795
	1 00	•		121
	Total number of inspections	•		2,107
	Offensive Trades			
	Number of trades on register, 31st December	ber, 1948		11
	r			227
	Breaches of By-Laws			Nil
	Atmospheric Pollution	n		
	_		11.	1
.O	ceedings re black smoke, other than from Approximate number of chimneys.	_	vening	
	Time of absorptions tales.	•	• •	252 567
	Revealing black smoke over two minutes		 11r	307
	observations			10
	Burial Grounds			
	Number in City			10
				4 = 0

Pr

Number of exhumations supervised by the Sanitary

150

8

Total number of inspections ...

Officers

In March, 1948, a public enquiry was held by the Ministry of Health and Local Government under Section 162, Public Health (Ireland) Act, 1878 to determine if an order should be made for the discontinuance of burials in Balmoral Cemetery, Stockman's Lane; evidence was given by the Medical Officer of Health.

Cinemas, Theatres

Number in City		 	43
Number of routine inspec	tions	 	1,269

In addition to routine inspections concerning cleanliness, sanitary conveniences, etc., special visits are made in connection with the efficiency of ventilating and heating systems. Tests are carried out involving the use of the Kata Thermometer and a hygrometer. If unsatisfactory results are obtained the attention of the management is drawn to same; eight such letters were sent during the year; seven cinemas on being re-tested were found to be satisfactory and the remaining one required repairs to the heating apparatus.

Primary and Intermediate School Buildings

Frinary and Intermediate School Buildings	
Number in City	132
Total number of inspections	1,286
Defects discovered by Sanitary Officers	78
Complaints from School Health Services investigated	83
	00
Intimations concerning defects sent to Director of	60
Education	69
Intimations concerning defects sent to Managers, etc.	29
Sanitary improvements carried out	71
Miscellaneous Inspections	
Tipping grounds—Number in City 14 Total inspections	165
Marina atarea	801
TO 1	319
Rivers — ,, ,, 15 ,, ,, Public Sanitary	010
Conveniences — 70	2,228
Conveniences — ,, ,, 70 ,, (including those situated in Parks and Playgrounds)	2,220
(inclining those situated in 1 drks and 1 taygrounds)	
Drain Tests	
Total number of tests made (including tests under	
Rodent and Insect Pests Control)	371
Number showing defects	201
0	
Provision of Ashbins (Section 44, Belfast Corporation Ac	
Number of notices served under above Section	493
Number of ashbins provided	475
Number of summonses for non-compliance with notice	9
Hairdressers Act (N.I.), 1939	
Total No. on register as at $31/12/47$ 344	
,, registered during 1948 218	
	562
,, deleted during 1948	188
,, on register as at $31/12/48$	374
,, of inspections of registered premises	1,387
Number of intimations sent re contraventions of By	
Laws	24

In March, 1948, By-Laws made under Section 2 of the above Act were approved by the Ministry of Health and Local Government. A survey was then made of all premises where the trade or business of barber or hairdresser is carried on. The registration was verified and breaches of the By-Laws noted; reasonable time is being allowed where non-compliance with the By-Laws involves alterations to the premises.

Planning and Housing Act (N.I.), 1931

Owing to the serious shortage of dwelling houses, no surveys were made under the above Act and no houses were represented as unfit for human habitation.

Pupil Sanitary Officers

Five pupils completed their practical training during 1948, four entered for the Sanitary Inspectors Examination of the Royal Sanitary Institute, London, three obtaining their certificates. The number of pupils in the Department on the 31st December, 1948, was eight, which included two ex-Service trainees under the Government Further Education and Training Scheme.

Report on the Administration of the Factories Act (Northern Ireland), 1938

PART 1.—INSPECTIONS for the purposes of provisions as to health including Inspections made by Sanitary Inspectors

		Number of	
PREMISES (1)	Inspections (2)	Written Notices (3)	Occupiers Prosecuted (4)
Factories with mechanical power	1,803	172 .	15
Factories without mechanical power	457	56	
† Other premises under the Act (including works of building and engineering construction, but not including outworkers' premises)	644	99	
TOTAL	2,904	327	*15

^{*}Includes 7 prosecutions under Public Health Acts and the Regulations made thereunder.

PART 2.—DEFECTS FOUND

		Nu	mber of Defec	ts	Number of defects in respect of
PARTICUI	LARS	Found	Remedied	Referred to Chief Inspector	which Prosecutions were instituted
(1)		(2)	(3)	(4)	(5)
Want of cleanliness (S.1)		52	47	3	5
Overcrowding (S.2)		3	3	••	
Unreasonable temperature (S.3)		2	2	• •	
Inadequate ventilation (S.4)		25	20	5	
Ineffective drainage of floors (S	.6)	2	1	1	
1	Insufficient	40	37		5
Sanitary Conveniences (S.7)	Unsuitable or defective	505	476		3
{	Not separate for sexes	9	8		
Other offences (excluding offence which are included in Part	tes relating to Home Work 3 of this report)	212	186	38	2
Breach of special sanitary rec (S.56 to S.59)	quirements for bakehouses	18	15		
	TOTAL	868	795	47	15

PART 3.—HOMEWORK

	Number of Inspections	Outwork in	Unwholesom (Section 115)	e Premises		in Infected Pons 116 and 1	
NATURE OF WORK (1)	of Out- workers' Premises (2)	Instances (3)	Notices Served (4)	Prosecu- cutions (5)	Instances (6)	Orders Made (S. 117) (7)	Prosecu- cutions (Ss.116 & 117) (8)
1. Making, cleaning, washing, altering, ornamenting, finishing and repairing of wearing apparel 2. Making-up, ornamenting, finishing, and repairing of table linen, bed linen or other household linen (including in the term "linen" articles	608	3	3		4	4	
of cotton or cotton and linen mixture)	485	1	1				
3. Textile Weaving and any process incidental thereto4. Other	40						
TOTAL	1,133	4	4		4	4	

Medicines, Pharmacy and Poisons Act (N.I.), 1945

26

Number of persons on register

1 -0		
Shops Act (N.I.), 1946		
Number of inspections under Section 22		2,688
Number of contraventions discovered		78
Number of contravention notices served		49
Number of contraventions remedied		50
Number of exemption certificates issued (in respect	of	
sanitary conveniences or washing facilities)		15
Rag Flock Act, 1911		
No. of inspections of premises where rag flock is used	d	68
No. of samples submitted to Public Analyst		20

110. Of Samples Submitted to 1 ubite Thailyst	• •	20
No. of samples certified as not being in accordance	with	
the Rag Flock Regulations, 1912		Nil
No. of cautionary letters issued		Nil
No. of prosecutions instituted		Nil

FOOD INSPECTION (excluding Public Abattoir)

During the year this Section was reorganised, a Chief Food Inspector being appointed, also an additional Food and Drugs Inspector, bringing the total staff employed on this work up to six. This has resulted in better supervision over the preparation, storage and sale of food for human consumption and an increase in the number of prosecutions for breaches of the Statutes and Regulations relating thereto. Details of prosecutions are submitted under the heading "Legal Proceedings."

SALE OF FOOD AND DRUGS ACT

Year		Number of samples taken for analysis			Number of samples adulterated			entage of sa adulterated	
1 cai	Formal	Informal	Total	Formal	Informal	Total	Formal	Informal	Total
1946	825	25	850	17	5	22	2.06	20.0	2.58
1947	962	38	1000	40	1	41	4.16	2.6	4.1
1948	956	59	1015	40	2	42	4.18	3.38	4.13

Return showing particulars of adulterated samples

NATURE OF SAM	/IPLE		Total No. of Samples taken	Adultera- tions	Prosecu- tions	Convic- tions	Fines	Costs
Brandy		••	3	1	1	1	1 0 0	1 0 0
Buttermilk			36	4	3	3	2 0 0	3 0 0
Hydrogen Peroxide			2	1	1	1	1 0 0	1 0 0
Oil Cooking (inf.)			3	1	_	_	_	·
Ointment, boracic			3	2	_	_		_
Salad Dressing			3	3	3	3	1 0 0	3 0 0
Sausages			37	10	3	. 3	2 5 0	3 0 0
Spice, mixed			7	1	_	<u>-</u>		_
Sweetmilk	:.		352	15	13	13	18 15 0	13 15 0
Syrup, essence, flavoure	d (inf.)		1	1	_		_	_
Whiskey			8	3	2	2	2 0 0	2 0 0
	TOTAL		455	42	26	26	28 0 0	26 15 0

Cases of Adulteration in which no Legal Proceedings were taken

Formal Samples:

1 of buttermilk, 2 boracic ointment, 7 sausages (6 deficient in meat content reported to the Ministry of Food), 1 mixed spice, 2 sweetmilk, 1 whiskey.

Informal Samples:

1 of flavoured syrup essence, 1 edible oil.

MILK CONTROL

While Sanitary Officers are empowered to inspect cowsheds, dairies and milk-shops under The Dairies, Cowsheds and Milkshops Order, (N.I.) 1935, the occupiers of cowsheds and dairies are required to make such reasonable arrangements in regard to the lightning, ventilation, air space, cleanliness, etc., as may be required by the Ministry of Agriculture. Under the Milk and Milk Products Act (N.I.), 1934, licences for producers and distributors are issued only by the Ministry of Agriculture.

Approximate number of producers of milk		15
Approximate number of wholesale dealers		3
Approximate number of retail purveyors		946
Average number of cows in registered premises		416
Number of inspections under Cowsheds, Dairies and	Milk-	
shops Order, 1935		2445
Number of samples of milk taken under Sale of Foo	d and	
Drugs Acts		353

Particulars of Sweetmilk Samples taken during the three years 1946-1948

Year	Number of Samples taken	Number of Samples adulterated	Percentage of Samples adulterated
1946	459	5	1.08
1947	352	7	1.9
1948	353	15	4.24

Particulars of Bacteriological Examinations

		Number of		RESULT	OF TEST		
TEST	Grade of Milk	Samples Examined	Satisf	actory	Unsatisfactory		
		Examined	Number	Percentage	Number	Percentage	
Plate Count	A	6	6	100	_	_	
** **	В	37	36	97.3	1	2.7	
,, ,,	B. Pasteurised	165	151	91.5	14	8.5	
Coliform	A	6	6	100	_	_	
,,	В	. 37	30	81.1	7	18.9	
,,	B. Pasteurised	165	159	96.4	6	3.6	
Phosphatase	B. Pasteurised	165	163	98.8	2	1.2	
Biological	A	6	6	100	_	_	
,,	В	37	35	94.6	2	5.4	
,,	B. Pasteurised	104	104	100	_	_	

Visits to Shops, Stores, etc., by Food and Drugs Inspectors

Description of Sl	hops, etc.		Nur	nber of	Visits
Butchers' Shops		 		1810	
Cold Stores		 		5	
Confectioners		 		1574	
Dairies		 		_	
Fish Shops		 		480	
Fried-Fish Shops		 		681	
Fruiterers		 		1535	
Grocers' Shops		 		4515	
Hawkers' Carts		 		975	
Ice Cream Shops		 		2540	
Jam Factories		 		2	
Markets		 		134	
Meat Factories		 • •		78	
Pork Stores		 		21	
Provision Shops		 		1397	
Railway Termini		 		_	
Restaurants		 		1320	
Wholesale Stores		 • •		417	
Milkshops		 		2445	
		TO	TAI	10000	
		10	TAL	19929	

Registration of Factories and Wholesale Premises

(a)	Margarine Factories on register	••	Nil
(b)	Wholesale dealers in Margarine on register		78

PUBLIC HEALTH ACTS

Unsound foodstuffs inspected by the Food and Drugs Inspectors under the above Acts and destroyed or disposed of otherwise than for the food of man, under their supervision.

Beans		1362	Tins		Syrup .			31 Tins
Cereals		22	,,		Tomatoes.			172 ,,
Cocoa		38	,,		Tomato Pa			2 ,,
Condiments		57	,,		Treacle .			25 ,,
Cheese		1	,,		Unclassified			128 ,,
Condensed Milk		1172	,,		Vegetables			2185 ,,
Dried Eggs		8	,,		Coffee Esse	nce		3 Btls.
Energy Tablets		38	,,		Fruit Juice			593 ,,
Fish		2059	,,		Rose-Hip S			324 ,,
Fish Paste		114	,,		Sauce .	•		17 ,,
Fruit		6090	,,		Unclassified			3 ,,
Jam		3728	,,		Meat Extra	ct		294 Jars
Macaroni		34	,,		Pickles .			198 ,,
Malted Food		425	,,		Cereals .			77 Pkts.
Meat		1017	,,		Gravy Pow	der		107 ,,
Peas		1853	,,		Pudding Mi			102 ,,
Pudding		82	,,		Unclassified			45 ,,
Soup		768	,,		Meat Extra	ct		943 Cubes
Spaghetti		72	,,		Pies .	•		54
2 0								
						Cwts.	Qr	s. Lbs.
Assorted Foodstu	ffs					Cwts.		rs. Lbs.
Assorted Foodstu: Baking Powder	ffs			• •				
							_	1 16
Baking Powder					••		_	1 16 - 24
Baking Powder Biscuits					••			1 16 - 24 2 26
Baking Powder Biscuits Butter						14 — —	- : -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations						14 — — — 2	- : - :	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals		••				14 — — — 2	- :	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon						14 - - 2 1 -	- ;	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery						14 - - 2 1 - 3	-	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping						14 - - 2 1 - 3 1	-	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish						14 - - 2 1 - 3 1	- :	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish Fruit (Fresh)						14 - - 2 1 - 3 1 7	- :	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish Fruit (Fresh) Fruit (Dried)						14 2 1 3 1 7 59	- :	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish Fruit (Fresh) Fruit (Dried) Flour						14 2 1 3 1 7 59		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish Fruit (Fresh) Fruit (Dried) Flour Margarine						14 2 1 3 1 7 59 2 		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish Fruit (Fresh) Fruit (Dried) Flour Margarine Rabbits						14 2 1 3 1 7 59 2 2		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Baking Powder Biscuits Butter Cake Decorations Cereals Cinnamon Confectionery Dripping Fish Fruit (Fresh) Fruit (Dried) Flour Margarine Rabbits Sausages and Saus	sage Me	 				14 2 1 3 1 7 59 2 2 1		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

SALE OF ICE CREAM ACT (N.I.), 1937

	Manufacture	Manufacture and Sale	Sale only		Total
Total No. of premises on register at 31-12-47	5	278	390	673	
Total No. of deletions during 1948	_	40	76	116	
					557
Total No. registered during 1948	2	10	84		
					96
Total No. on register at 31-12-48	7	248	398		653
No. of inspections of registered pren	nises				2540
No. of summonses issued for breach	es of the Act,	By-Laws and	Regu	ıla-	
tions			Ü		29
No. of samples submitted for bacters	iological exam	ination			283
No. of samples submitted for chemic	cal examination	n			24

No chemical standard exists at present for ice cream and of the 24 samples examined by the Public Analyst the fat content varied from 2.0% to 7.8%, while the total solids varied from 20.46% to 32.6%.

Particulars of Bacteriological Examinations

Plate Count (283 samples)

Organisms per millilitre	Number of Samples	Percentage of total samples
200,000 or under	226	79.9
Over 200,000 and under 500,000	38	13.4
Over 500,000 and under 1,000,000	10	3.5
Over 1,000,000	9	3.2

Coliform Test (283 samples)

B. Coli	Number of samples	Percentage of total samples
Absent in 1 millilitre	131	46.3
Present in 1 millilitre	38	13.4
Present in 1/10 millilitre	30	10.6
Present in 1/100 millilitre	32	11.3
Present in 1/1000 millilitre	52	18.4

During the year ice cream was imported into the City from England and samples of same examined both chemically and bacteriologically were of good quality and a high standard of cleanliness.

REGISTRATION OF BUTCHERS' SHOPS

Belfast Corporation Act, 1930, Section 43

Total No. of premises on register as at 31-12-47	454	
Total No. of registrations during 1948	21	
		475
Total No. of deletions during 1948		101
No. on register at 31-12-48		374
No. of inspections of registered premises		1810
No. of breaches of By-Laws		Nil

RODENT CONTROL

Rats and Mice (Destruction) Act, 1919

No. of surveys made of lands and premises	2302
No. of re-visits and re-inspections	2448
No. of lands, premises, etc., found to be infested	295
No. of poison campaigns carried out by Rodent Control Officer (On request of occupiers who undertook to pay costs)	127
Estimated number of rats killed as result of poison cam-	
paigns	1244
Cases where action was taken by occupiers to eliminate rats—	
(a) By professional rat destruction firms	54
(b) By occupiers themselves	86
No. of premises where rat proofing was carried out	60
No. of notices served under Rats and Mice (Destruction) Act, 1919	7
No. of summonses issued under Rats and Mice (Destruction) Act, 1919	2
Action taken by District Sanitary Officers re rat complaints:	
No. of premises where drains were tested	308
No. of premises where drains were defective on test	170
*	

CO-OPERATION WITH OTHER CORPORATION DEPARTMENTS

City Surveyor:

Forty-six poison campaigns were carried out in sewers in the central area of the City bounded by Donegall Quay, Whitla Street, North Queen Street, Upper Library Street, Townsend Street, Durham Street, Sandy Row, Donegall Pass, Cromac Street, Stewart Street, Laganbank Road and Donegall Quay.

Total estimated kill—9605 rats.

Director of Education:

Eight poison campaigns against rats were carried out in six schools.

MOSQUITO CONTROL

From April to the end of August a temporary staff was employed under the supervision of the Rodent and Insect Pests Control Officer. Surveys were made of all potential breeding places and control work, consisting of oiling areas where actual breeding was found, carried out. The Department is indebted to the Electrical Engineer and General Manager of the Electricity Department for a supply of waste transformer and turbine oil, which reduced the cost of the scheme.

Principal types of mosquitoes identified:—

Aedes Detritus, Theobaldia Annulata, Culex Pipiens and Anopheles Claviger.

Miles covered by motor van 1038

Waste transformer and turbine oil used .. 9760 gallons

No. of surveys of mosquito breeding areas 160

INSECTS OTHER THAN MOSQUITOES

No. of complaints investigated 41

In all cases the source of the complaint was investigated, the type of insect identified and advice given re measures of disinfestation.

LEGAL PROCEEDINGS

		Su	mmonses	Orders	H	ines	S
(1)	Under Public Health Acts:—				£	s.	d.
	For abatement of nuisances Under Section 23	• •	1264	50		3	0
	Exposed for sale unsound food		$\frac{18}{2}$	_		10	$0 \\ 0$
	Disobedience of Magistrates Orders		$\frac{-}{4}$	_		10	ŏ
(2)	Under Ice Cream Act (N.I.), 1937:—						
	Selling Ice Cream not conforming standards		8	_	10	0	0
	Name and address not painted vehicles Stored ingredients in yard in which which is the stored in the stored		5	_	2	12	0
	there was an inlet to drain	icn	2	_	2	0	0
	Premises not registered	• •	2	_	2 2 5	0	0
	Materials stored in sleeping room Failed to cleanse utensils immediate	 elv	1	-	5	0	0
	after use		7	_	26	0	0
	Failed to protect ingredients from cotamination	on-	4	_	11	0	0
(3)	Under Public Health (Prevention Contamination of Food) (Belfa Regulations (N.I.), 1938:—						
	Stored food in room used as sleepi	ng					
	place		2	_	10	10	0
	Failed to take precautions to preve contamination of food		14	_	69	10	0
	Failed to take precautions to secucleanliness of premises		20	_	56	10	0
	Sanitary convenience communication directly with room in which for						
	was prepared or stored Food deposited for sale in room co	. ,	9	_	34	10	0
	taining W.C		1	_	1	0	0
(4)	Under Sale of Food and Drugs Acts:	:—	26	_	23	15	0
(5)	Conveyance of Meat By-Laws:—	• •	31	_	52	15	0
(6)	Merchandise Marks Act (1926):—		8	_	4	10	0
(7)	Under Belfast Corporation Acts:—						
	Exposed for sale food liable to be co	n-	00		00	0	0
	taminated by animals Failed to supply a bin	• •	36 9	_	28 10	12	0
(8)	Under Factories Act (N.I.), 1938:—		8	_		—	
(9)	Under Rats and Mice (Destruction Act, 1919:—	on)	2	_	1	0	0
(10)	Under Food Standards (Salad Crea and Mayonnaise) Order, 1945		3	_	1	0	0

I am, Sir,

Your obedient Servant,

W. J. HARRIS,

Executive Sanitary Officer.

RAINFALL FOR THE YEAR 1948

The following table, kindly supplied by the Belfast City and District Water Commissioners, shows the rainfall in inches during the several months of the year.

January					8.38
February	• •	• •	• •		2.97
March		• •			2.69
April					2.27
May	• •		• •	• •	2.90
June	• •				4.77
July	• •	• •		• •	3.06
August					5.62
September					4.74
October					3.95
November					3.31
December					5.42
					50.08

Taken at Oldpark Works, Belfast. Gauge at 203 ft. O.D.

REPORT OF THE CITY VETERINARIAN

On the Work of his Department for the Year 1948

To the Chairman and Members of the Health Committee.

I beg to submit my report on the work at the Belfast Municipal Abattoir in connection with the Ante-Mortem and Post-Mortem examinations of animals slaughtered for human food.

TABLE 1
Shewing by months the number and description of animals slaughtered during the year.

1948	Cows	Heifers	Bulls	Bullocks	Calves	Sheep and Lambs	Goats	Pigs
January	2,141	160	64	3,001	1,839	2,609	701	302
February	1,608	287	101	2,534	1,222	451	704	242
March	1,168	115	62	1,264	1,844	714	449	317
April	447	113	53	959	1,125	1,774	705	388
May ·	384	73	81	457	67	7,297	606	425
June	862	153	102	992	45	11,126	125	420
July	764	258	89	1,931	199	9,469	109	491
August	1,094	224	80	1,669	617	14,259	182	397
September	1,222	379	74	2,409	1,481	13,012	256	238
October	1,491	751	34	1,674	2,570	14,824	259	318
November	2,175	552	25	1,534	1,624	21,430	580	488
December	1,858	799	70	2,373	1,298	8,967	677	488
TOTALS	15,214	3,864	835	20,797	13,931	105,932	5,353	4,514

Compared with the year 1947, Cattle shew a decrease of 11,526; sheep and lambs an increase of 8,309; pigs an increase of 1,045 and goats an increase of 2,087.

TABLE 2
Shewing the number of carcases condemned from all causes during the year 1948 as being unsound and unfit for human food, as compared with the year 1947

SPEC	IES		1947	1948
Cows			1,884	977
Heifers .			51	51
Bulls			11	6
Bullocks .			92	86
Calves			1,226	773
Sheep and Lam	ıbs		168	154
Goats			111	140
Pigs			78	93
	TOTALS	S	3,621	2,280

The percentage of carcases condemned from all causes at the Public Abattoir during the year 1948 was 1.33 per cent.

TABLE 3
Shewing the different diseased conditions which involved seizure and total destruction of carcases in the Public Abattoir during the year 1948

		CATTLE							
	Cows	Heifers	Bulls	Bullocks	Calves	Sheep	Goats	Pigs	Total
Anæmia		1		1		5	1		8
Arthritis	2					••		2	4
Caseous Lymphaditis			••		1	1			2
Decomposed						1			1
Dropsical and Emaciated	194	1	1	8	303	71	134	6	718
Enteritis	1	1		1	11	1	••	2	17
Fevered	67	8		14	148	46	2	15	300
Fibrosis				1	••				1
Gangrene	1	••		4		4			9
Injured	15	2		3	4	9		2	35
Immature					236				236
Jaundice	1	1		1	11	2			16
Joint Ill					30				30
Melanosis	2				3				5
Neoplasms	2								2
Cancer Sarcoma	15								15
Pericarditis	1								1
Pleurisy or Peritonitis	13	3		2	1	1		4	24
Pyæmia	2			2		•••		1	5
Red Water	7	1		3			••		11
Rheumatism									
Septicæmia	12	4		8		4	1	28	57
Septic Mastitis	27							1	28
Septic Metritis	10	1				1		1	13
Septic Nephritis	4								4
Septic Pneumonia	4	1		1	10	8	2	12	38
Swine Erysipelas								7	7
Tetanus	1								1
Tuberculosis	595	27	5	37	15			12	691
Uræmia	1								1
	977	51	6	86	773	154	140	93	2,280
T., 11141 4 . 4	1	T	1	1	00	1	<u> </u>	1	10.11

In addition to the above summary, there were 28 tons, 8 cwt., 0 qrs., 12 lbs. of Beef; 15 cwts., 3 qrs., 7 lbs., of Mutton; and 11 cwts., 1 qr., 8 lbs., of Pork seized as being unsound and unfit for human food.

TABLE 4

Shewing comparison between Tuberculosis and other diseases as causes of condemnation of carcases of animals slaughtered at the Public Abattoir during the year 1948.

TUBERCULOSIS

			CATTLE					
		Cows	Other Cattle	Calves	Sheep Lambs	Goats	Pigs	Total
Total Seizure		 595	69	15	••	••	12	691
Partial Seizure		 136	48				57	241
Total and Partial	• •	 731	117	15		••	69	932

OTHER DISEASED CONDITIONS

			CATTLE		Chase			
		Cows	Other Cattle	Calves	Sheep Lambs	Goats	Pigs	Total
Total Seizure		 382	74	758	154	140	81	1,589
Partial Seizure		 987	452	7	362	12	126	1,946
Total and Partial	• •	 1,369	526	765	516	152	207	3,535

It will be seen from the above table that tuberculosis in cattle is a most fruitful source of total seizure, accounting for about 30 per cent. of the seizures, as compared with other diseased conditions.

TABLE 5

Shewing the percentage by age periods of the animals slaughtered and condemned at the Public Abattoir as suffering from tuberculosis.

				BY AGE									
SPECIES		From one month to one year	Per Cent.	One to three years	Per Cent.	From three to six years	Per Cent.	Over six years	Per Cent.				
Cows	• •		••	• •					595	100			
Heifers .			1	3.70	26	96.30				• •			
Bullocks .				••	19	51.35	18	48.65					
Bulls .			1	20	1	20			3	60			
Pigs .			12	100									
Calves .			15	100									

TABLE 6

Shewing the percentage by condition of the animals slaughtered and condemned at the Public Abattoir during the year as suffering from tuberculosis.

			BY CONDITION										
SPECIES		Good		F	Fair		lifferent	Poor					
		Number	Per Cent.	Number	Per Cent.	Number	Per Cent.	Number	Per Cent.				
Cows		8	1.34	168	28.23	223	37.47	196	32.94				
Heifers		2	7.40	22	81.48	1	3.70	2	7.40				
Bulls				2	33.33 "	1	16.66	3	50.00				
Bullocks		5	13.51	27	72.97	3	8.10	2	5.40				
Calves		//				15	100						
Pigs		12	100			••							

TABLE 7

Shewing the number of Diseased Organs seized and destroyed during the year 1948 as being unsound and unfit for human food (the figures for the preceding year are given for comparison).

					1947	1948	Increase	Decrease
BEEF:—					000	004		
Heads	• •	• •	• •	• •	993	904	• •	89
Tongues	• •	• •	• •	••	976	797		179
Hearts	• •	••		• •	721	558		163
Lungs	• •		• •	• •	2,288	6,106	3,818	
Livers				••	24,320	21,802		2,518
Stomachs					1,371	1,085		286
Udders					7,160	4,643		2,517
Mesenterie	s & I1	ntestine	es		1,379	1,167		212
Omentum					1,379	1,167		212
Diaphragn	ı			••	79	22		57
Kidneys					155	75		80
HITTON	• • • • • • • • • • • • • • • • • • • •							
IUTTON:— Hearts					12	32	20	
Lungs					2,288	1,049		1,239
Liver					26,727	21,372		5,355
Kidneys		••	••		20	28	8	
PORK:—								
Heads	• •	••	••	••	186	78		108
Tongues					186	78		108
Hearts					76	93	17	
Lungs					87	161	74	
Liver					216	170		46
Kidneys					6	9	3	
GOAT:— Liver					487	517	30	
Kidneys								

The above does not include the viscera of animals totally destroyed.

TABLE 8

Shewing percentage incidence of generalised tuberculosis in animals slaughtered at the Public Abattoir during the year 1948. The percentage for the previous year is given for comparison.

		1947	1948
Cows	 	4.61	3.91
Other Cattle	 	.17	.27
Cattle (all classes)	 	2.11	1.38
Calves	 	.22	.71
Pigs	 	.14	1.70

TABLE 9

Table shewing the amount of Beef, Mutton, Pork, etc., presented by the prevention officers of the Ministry of Food and others for examination at the Abattoir.

BEEF—Sides examined, 2; seized and destroyed, 0; Quarters examined, 15; seized and destroyed, 10; Cuts examined, 119; seized and destroyed, 10.

MUTTON—Carcases examined, 5; seized and destroyed, 5.

PORK—Carcases examined, 527; seized and destroyed, 154.

VEAL—Carcases examined, 1; seized and destroyed, 1.

FOWL—Fowl examined, 771; seized and destroyed, 771.

TINNED MEATS—Tinned Meats examined, 1,873; seized and destroyed, 1,873. TOMATO PUREE—1,651 tins.

FISH AND FOWL MARKETS

Seized or Surrendered

18 tons, 14 cwts., 1 qr., 22 lbs. of Herrings, Kippers, etc.

CYSTICERCUS BOVIS

During the year cysticercus bovis infections were shown to be present to the extent of .12 per cent. of all bovines slaughtered at the Abattoir.

I am of the opinion that this incidence of infestation is probably a good deal higher as one is limited to the number of incisions made in routine inspections.

The distribution of the parasite has been found to be as follows:—

60 per cent. left external masseter muscle.

29 per cent. right external masseter muscle.

9 per cent. both external and internal masseter muscles.

2 per cent. left internal masseter muscle only.

This parasite is of great importance from a meat inspection aspect as it is communicable to man if the meat is eaten in a raw or improperly cooked state, giving rise to the tapeworm "Tænia Saginata."

SERVICES RENDERED TO OTHER DEPARTMENTS

During the year, a general supervision of the health of the animals of the several Committees of the Corporation was exercised. Fortunately most of the work during the year was in the nature of preventive medicine.

ABATTOIR

There are no private Slaughter Houses in the city, so that all animals slaughtered in Belfast for human consumption must be brought to the Public Abattoir.

The Abattoir is situated in Stewart Street, adjacent to the Cattle Market and Cattle Yards.

The Slaughter of Animals Act (N. Ireland), 1932, makes it compulsory for all animals slaughtered for human food to be stunned by means of a mechanically-operated instrument and rendered insensible to pain until death supervenes.

The Abattoir is designed so that the slaughter of cattle, sheep, and pigs is carried out in three different departments. The lairages for the different animals are quite convenient to the killing booths, yet the animals cannot see their fellows being slaughtered. The cooling halls are situated quite close to the slaughter halls and all carcases can be easily conveyed there by means of an overhead rail system.

The cattle slaughter halls are a combination of the open hall and booth system.

The sheep unit consists of two extensive slaughter halls with lairages and cooling halls attached.

The pig unit is equipped with a singeing plant for those users engaged in the Wiltshire Trade.

An extensive cold storage plant is attached to the Abattoir, and during the summer months this is utilised to a great extent by the trade.

According to the By-Laws, all persons employed in the slaughtering and dressing of animals must be licensed and during the year 80 such licences were issued.

All the larger animals at the Abattoir are stunned by means of a Cash Captive Bolt Gun prior to bleeding, and in the case of smaller animals an electrical apparatus known as an Electrolethaler is used.

To my colleague, Dr. Tinsdale, I am again deeply grateful for the considerable amount of laboratory work which he so kindly undertook on my behalf.

To my staff for their loyal support and manner in which they carried out their duties at all times, I say, thanks.

I am,

Mr. Chairman and Gentlemen,

Your obedient servant,

ALEX. McLEAN,
City Veterinarian and Manager of Abattoir.

To the Medical Officer of Health.

Dear Sir,

I beg to present a summary of the work carried out at the laboratory during year 1948

the year 1948.					
INFECT	TIOUS	DISEASES	3		
Diphtheria.			Pos.	Neg.	Total
 Swabs from Practitioners do. Hospitals do. Public Health I Direct Examinations Virulence Tests 	 Oept. 	· · · · · · · · · · · · · · · · · · ·	61 442 4 2 14	1,104 1,860 57 41 6	1,165 2,302 61 43 20
Vincent's Angina.					
Swabs	• •		31	179	210
Enteric Group.					
 Agglutination Reactions Faeces, Blood, etc. Shell Fish 	••	••	24 53 —	125 144 —	149 197 3
Malaria.					
Blood Films	• •		2	16	18
Food Poisoning.					
Foodstuffs Tinned Foods			_		9 27
Meningitis.					
1. Cerebro-Spinal Fluids	• •		21	237	258
Tuberculosis.					
1. Sputa			296	496	792
2. Pus	• •	• •		54	54
3. Urines 4. Fluids	• •	• •	$\frac{-}{2}$	3	5
i. Huids	••		_	v	Ü
Plague.					
Rats	• •	• •			434
Streptococcal Infections.					
Swabs for Group A Typing			_	_	144
Venereal Diseases.					
Wasserman Reactions (Blood)	• •		263	4,251	4,514
Wasserman Reactions (C.S.F.)		• •	5	17	22 160
Films for Gonococci	• •	• •	30	139	169

4,514

Kahn Reactions

MILK EXAMINATIONS

Grade A Grade B Grade B (Pasteurised) Phosphatase Tests Reductase Tests Biological Tests for T.B. Ice Creams						6 37 165 166 160 147 278
	WATER	EXAMIN.	ATIONS			
Ordinary Waters Bath Waters Iced Lollipops Lemonades				 	•••	6 29 14 19
Uì	NCLASSIF	IED EXA	MINATION	IS .		
Blood Sugars Blood Ureas Blood Films Blood Counts Blood Cultures E.S.R Urines Paul Burrell Pathological Specimens Other Examinations		· · · · · · · · · · · · · · · · · · ·			••	34 29 59 66 47 406 174 7 6 300

Yours faithfully,

G. F. W. TINSDALE,

City Bacteriologist.

MATERNITY AND CHILD WELFARE

INFANTILE MORTALITY

During the year 441 children died under the age of 12 months, giving an infantile mortality rate of 45, which is the lowest recorded for the city. The rate for the previous year was 60. There was comparatively little epidemic infection during the year and the weather was generally favourable to the nurture of young infants, both of which circumstances contributed in some measure to the lower rate.

Prematurity, diarrhœa and enteritis, pneumonia, broncho pneumonia and bronchitis accounted for 59 per cent. of the infantile mortality rate.

Table A shows the number of deaths from these conditions and the death rate per 1,000 registered births during the past 10 years.

Table B shows the deaths of infants under one year and the infantile mortality rate during the past 10 years, with an analysis of these deaths and death rates according to different mortality groups.

Table C shows the infant mortality grouped according to causes and sex. Table D shows the infant mortality by age groups.

NEO-NATAL MORTALITY

The neo-natal rate of 23 was the same as that for the previous year, the lowest recorded for the city. The previous lowest, that for the year 1946, was 27.

Table E shows the neo-natal death and neo-natal death rates during the past 10 years, with an analysis of these deaths and death rates according to different mortality groups.

MATERNAL MORTALITY

The number of women who died from pregnancy, childbirth, and the puer-peral state during the year was 13, giving a maternal mortality rate of 1.3 per 1,000 live births. The figure for the previous year, the lowest recorded for the city, was 1.2, and that for the year 1946 was 2.2. The reduction in the last few years is mainly due to a decrease in the number of deaths from infection.

Table F shows the maternal mortality per 1,000 live births analysed according to the cause of death.

NOTIFICATION OF BIRTHS ACT

The total number of births notified occurring in the area during the year was 11,386, and in addition, 18 were either discovered by Health Visitor or notified by the Registrars of Births, making a total of 11,404. Of these 5,736 were males, 5,354 were females, and 314 were still-births.

Classified according to nature of attendance at confinement:-

- I. Maternity Services Scheme Cases: (a) with doctor, 1,315; (b) without doctor, 369.
- II. Other domiciliary cases: (a) with doctor, 1,649; (b) with midwife alone, 1,083; (c) conducted by outdoor staff of institution, 288; (d) without doctor or midwife, none.
- III. Institutional cases: (a) Hospital, 4,811; (b) Private Nursing Homes, 1,308; (c) Other institutions, 581.

HEALTH VISITING

38 Health Visitors were employed whole-time at the end of the year. Number of visits paid by Health Visitors during the year:- *

- I. To expectant mothers: First visits, 1,208; Revisits, 1,415; Total visits, 2,623.
- II. To children under 1 year of age: First visits, 8,956; Re-visits, 62,199; Total visits, 71,155.
- III. To children between the ages of 1 and 5 years: Total visits, 43,072.

ANTE-NATAL CLINICS

No. of centres at end of year provided by Health Arity	Autho-	13
No. of centres at end of year provided by Volume Bodies	ıntary	1
Total attendance during the year: First visits, 2,332;	Re-visits,	10,127.
Spier's Place, Shankill Road	1st Visit 223 156 175 147 101 171 148 208 169 215 100 78 161	Re-Visits 876 716 770 593 490 621 475 864 771 900 505 444 731
CHILD WELFARE CLINICS No. of centres at end of year provided by		
Local Authority		26
Attendances		
North Belfast Working Men's Inst., Danube Street Co-operative Hall, Frederick Street St. Donard's Church Hall, Bloomfield Road St. Aidan's Hall, Donegall Road do. Mersey Street Mission Hall St. Paul's Hall, Hawthorne Street, Falls Road Spier's Place, Shankill Road (Tuesday) Havelock Place Mission Hall Glenard Mission Hall Grovefield School, Mount Street (Wednesday) Seaview Church Hall, Shore Road Oldpark Unionist Hall, Avoca Street (Wednesday) Forester's Hall, Divis Street (Wednesday) Ligoniel Mission Hall Mountcollyer Mission Hall Westbourne Church Hall, Susan Street Kimberley Street Hall Oldpark Unionist Hall, Avoca Street (Thursday) Joanmount (Eglinton) Presbyterian Church Hall St. John's Parochial Hall, Greencastle	Under 1 year 3,393 2,831 3,730 3,140 4,315 3,369 3,771 3,618 3,676 3,114 4,438 3,077 1,630 2,739 2,310 4,201 4,408 3,434 4,511 2,255 2,514	Over 1 year 1,455 709 999 973 1,426 1,177 1,699 865 1,282 1,149 1,475 1,821 728 958 488 1,000 1,895 796 1,073 549 1,065
Spier's Place, Shankill Road (Thursday)	3,313 3,862	683 1,483
Hall Forester's Hall, Divis Street (Friday) Grovefield School, Mount Street (Friday)	4,683 3,439 5,274	1,478 872 2,225
TOTAL ATTENDANCES	90,865	30,323

MOTHER AND BABY HOMES

Ante and Post-Natal Hostels

	NUMBER OF BEDS								
Name and address of Home or Hostel (1)	Ante- Natal (2)	Post Natal	Labour (4)	Isola- tion	Maternity (excluding labour and isolation) (6)	Cots (7)	Ante- Natal	Post Natal (9)	
	4	17	(-)	1	(0)	17	1-2	2-4	
(a) Hopedene (b) Thorndale	18	18	2	3	2	18	months 6–8 weeks	months 3 months or longer	
(c) Malone Place	1	4	1	2	27	as re- quired	_	56 days	

The total number of city cases admitted during the year to these hostels was 427.

All three hostels were in receipt of a grant from the Health Committee.

RESIDENTIAL NURSERIES

Name and address of	Whather long store	Number of Beds provided at the end of year					
Nursery	Whether long stay or short stay	Aged 0–9 mths.	10 mth. 2 years	Aged 2-5	Girls over 5	Boys over 5	
Glendhu Hostel Holywood Road (A voluntary Hostelin receipt of a grant from the Health Committee).	Short stay	5	8	7	6	6	

HOME HELPS

- (a) No. employed at end of year:
 - I. Whole-time, 53.
- Part-time, 12 II.
- (b) No. of cases taken during year:
 - I. Maternity, 537.
- II. Others, 240.
- Total: 777

- (c) Average period of assistance:
 - I. Maternity, 12 days. II. Others, 10 days.

REGISTERED FOSTER MOTHERS

Arrangements for Home Visiting.

Liaison is maintained with the Welfare Authority to insure adequate Health visitation of these mothers.

Maternal Deaths.

- (a) Number of women who died in, or in consequence of, childbirth in the area during the year:—
 - (I) From sepsis, 0; (II) From other causes, 13.
- (b) Number of women who died:—
 - (I) At home, 3; (II) In hospital, 9; (III) In other institutions, 1.

INFECTIOUS DISEASES

	(1) Ophthalmia Neonatorum		(2) Pemphigus Neonatorum		(3) Puerperal Fever		(4) Puerperal Pyrexia	
	Dom. Confine- ments	Instit. Confine- ments	Dom. Confine- ments	Instit. Confine- ments	Dom. Confine- ments	Instit. Confine- ments	Dom. Confine- ments	Instit. Confine- ments
Number of cases NOTIFIED during year	7	4			3		6	14
Number of cases visited by Officers of the Local Authority	7	3			3		6	7
Number of cases removed to hospitals	1				2		3	

In eleven of the above cases of Ophthalmia Neonatorum the vision appeared to be unimpaired at the end of treatment, while one case was still undergoing treatment at the end of the year.

DOMICILIARY MIDWIVES

	Domiciliary Midwives	No. in Inst. other than Hospitals	Midwives in Hosps.	Midwives in Nsg. Homes	Total
1. Total number of Midwives practising at the end of the year in the area of the Local Supervising Authority	166	13	74	31	284
(a) Employed by the Local Supervising Authority (Part Time)	90				
(b) Employed by Voluntary Associations	4	13			
(c) Solely in private practice	. 72				

Number of cases in which medical aid was summoned during the year under Section 22 of the Midwives (Ireland) Act, 1918, by a midwife:—

(I) For domiciliary cases, 315; (II) For cases in institutions other than hospitals, 7; total, 322.

Five midwives were suspended for short periods during the year in order to prevent the spread of infection.

REGISTRATION OF NURSING HOMES

	Number of Homes -	Number of beds provided for:—					
		Maternity	Others	Dual Purposes	Total		
Homes first registered during the year	I						
Homes on the register at the end of the year	34	53	83	154	290		

Action during 1948

Number of applications for registration refused		
Number of exemptions granted		
Number of exemptions withdrawn		
Number of registrations cancelled		4
Number of appeals by aggrieved persons to a Court		
Summary Jurisdiction	0.	
	• •	
Number of cases in which fines were imposed		
Number of inspections		416
	• •	710
Number of registered homes not inspected		

The inspections during the year were made by the Assistant Medical Officer, the Superintendent Nursing Officer and the Assistant Superintendent of Midwives.

TABLE A

Showing the number of Deaths of Infants under one year from Prematurity, Diarrhoea and Enteritis, Pneumonia, Broncho-Pneumonia, and Bronchitis.

	. Births	_	99	5
1948	Rate per 1,000	12.11	6.26	8.21
	Deaths	118	61	80
1947	Rate per 1,000 Births	10.19	10.00	15.90
19	Deaths	107	105	167
1946	Rate per 1,000 Births	12.78	10.84	12.49
19	Deaths	132	112	129
55	Rate per 1,000 Births	15.73	16.85	15.63
1945	Deaths	155	166	154
1944	Rate per 1,000 Births	20.18	17.02	16.35
19	Deaths	211	178	171
1943	Hate 1,000 Per 1,000 Births	22.40	26.79	23.06
19		240	287	247
1942	Rate per 1,000 Births	19.36	16.05	19.46
16	Deaths	187	155	188
41	Rate per 1,000 Births	18.96	20.64	15.15
1941	Peaths	159	173	127
1940	Rate per 1,000 Births	22.29	29.53	21.71
19	Peaths	194	257	189
39	Rate per 1,000 Births	149 16.62	170 18.96	15.39
1939	Deaths	149	170	138
		:	teritis	nia
		Prematurity	Diarrhoea and Enteritis	Pneumonia Broncho-Pneumonia and Bronchitis
		Pre	Dia	Pn. Bro

TABLE B

Showing the Deaths of Infants under one year and the Infantile Mortality Rates during the ten years 1939-1948, with an analysis of these deaths and death rates according to Mortality Groups.

1 8	Rate	2.89	5.40	5.01	3.20	3.08	2.20	2.84	2.13	2.76	1.33
Other	Deaths	26	47	42	31	33			22	56	13
er uses ar to irst f Life	Rate	2.57	3.91	2.51	2.38	5.41	8.61	9.24	5.03	4.66	3.18
Other Diseases peculiar to the First Year of Life	Deaths	23	34	21	23	58	06	91	52	49	31
Injury at Birth	Rate	1.34	2.53	1.79	2.59	2.42	2.01	2.03	2.13	2.76	2.36
Inju	Deaths	12	22	15	25	26	21	20	22	29	23
Premature Birth	Rate	16.62	22.29	18.96	19.36	22.40	20.18	15.73	12.78	10.19	12.11
Prem	Deaths	149	194	159	187	240	211	155	132	107	118
Congenital Debility	Rate	8.70	11.95	8.71	11.08	6.81	5.26	4.36	2.80	2.09	1.33
Conge	Deaths	78	104	73	107	73	55	43	29	22	13
enital rrma- ns	Rate	6.80	7.35	7.39	8.80	7.84	6.41	6.50	5.42	4.85	4.92
Congenital Malforma- tions	Deaths	61	64	62	85	84	67	64	56	51	48
Diseases of the Digestive System	Rate	20.19	30.91	22.06	17.08	28.00	18.27	17.96	11.23	11.14	6.77
Disease of the Digestiv System	Deaths	181	269	185	165	300	191	177	116	117	99
Diseases of the Respiratory System	Rate	16.51	22.86	15.63	19.88	23.80	16.64	16.14	13.36	16.09	8.62
Disc of Respii Sys	Deaths	148	199	131	192	255	174	159	138	169	84
Diseases of the Nervous System	Rate	4.68	2.99	3.94	3.83	3.64	4.02	3.35	2.13	1.23	1.33
Disea the NG Sys	Deaths	42	26	33	37	39	42	33	22	13	13
Infective & Parasitic Diseases	Rate	4.68	12.18	4.53	3.31	7.56	5.07	5.89	3.97	4.38	3.28
Infect Para Dise	Deaths	42	106	38	32	81	53	58	41	46	32
Infantile Mortality Rate		85	122	91	95	111	68	84	61	09	45
Deaths under One Year		762	1,065	759	884	1,189	927	828	630	632	441
Births		8,966	8,704	8,383	9,659	10,713	10,456	9,853	10,327	10,505	9,744
Year		1939	1940	1941	1942	1943	1944	1945	1946	1947	1948

TABLE CInfant Mortality by Causes and Sex

	Under 1	month	,	1	-11 month	Total under 1 year		
Males	Females	Total	Rate per 1,000 live births	Males	Females	Total	Total No. of Inf. Deaths	Rate per 1,000 live births
126	97	223	22.89	138	80	218	441	45.26
	 	 	 	6 1 3	5 1	11 1 4	11 1 1 	1.13 0.10 0.41
	2	2	0.21	39	20	59	61	6.26
				!				
				3	3	6	6	0.62
••	• •			1	1	2	2	0.21
15	10	25	2.57	15	8	23	48	4.93
78	59	137	14.06	1	3	4	141	14.47
19	13	32	3.28	7	5	12	44	4.51
8	1 7	1 15	0.10 1.54	2 36	1 25	3 61	4 76	0.41 7.80
 2 1 		 2 1 1 1 6	0.21 0.10 0.10 0.10 0.10 0.62	1 4 1 2 16	3 2 	 4 6 1 3 18	 4 8 2 1 4 24	0.41 0.82 0.21 0.10 0.41 2.46
	126	Males Females 126 97 2 18 7 2 1 8 7	126 97 223	Males Females Total Rate per 1,000 live births 126 97 223 22.89 2 2 0.21 15 10 25 2.57 78 59 137 14.06 19 13 32 3.28 1 1 0.10 1 1 0.10 1.54	Males Females Total Rate per 1,000 live births Males 126 97 223 22.89 138 </td <td>Males Females Total Rate per 1,0000 live births Males Females 126 97 223 22.89 138 80 </td> <td>Males Females Total Rate per boirths Males births Females Total 126 97 223 22.89 138 80 218 </td> <td>Males Females Total Rate per births Males births Females Total No. of Inf. Deaths 126 97 223 22.89 138 80 218 441 .</td>	Males Females Total Rate per 1,0000 live births Males Females 126 97 223 22.89 138 80	Males Females Total Rate per boirths Males births Females Total 126 97 223 22.89 138 80 218	Males Females Total Rate per births Males births Females Total No. of Inf. Deaths 126 97 223 22.89 138 80 218 441 .

TABLE DInfant Mortality (By Age Groups)

Sex	Under 1 day	1 day and less than 7 days	1–4 weeks	1-2 months	2–3 months	3–6 months	6–12 months	Total	Deaths of illegitimate children
Males Females	60	48 29	18 20	27 17	19 13	48 28	44 22	264 177	19 17
Total	108	77 `	38	44	32	76	66	441	36

TABLE E

Showing the Neo-Natal Deaths and Neo-Natal Death Rates during ten years 1939-1948, with an analysis of these deaths and death rates according to Mortality Groups.

il											
Other	Rate	1.90	2.64	2.86	1.76	3.17	2.68	2.44	1.26	98.0	0.82
Oct	Deaths	17	23	24	17	34	78	24	13	6	∞
Other Diseases peculiar to the First Year of Life	Rate	2.57	3.68	2.51	2.17	4.95	7.56	8.83	4.93	4.47	2.67
Other Diseases peculiar to the First Year of Li	Deaths	23	32	21	21	53	79	87	51	47	56
y at th	Rate	1.34	2.53	1.67	2.17	2.42	2.01	1.82	2.13	2.48	2.15
Injury at Birth	Deaths	12	22	14	21	26	21	18	22	26	21
ature th	Rate	15.06	20.79	16.82	18.64	21.09	18.94	15.02	12.20	19.61	11.90
Premature Birth	Deaths	135	181	141	180	226	198	148	126	101	116
nital llity	Rate	5.91	3.10	2.98	3.21	3.55	2.49	1.32	0.58	0.95	19.0
Congenital Debility	Deaths	53	27	25	31	38	26	13	9	10	9
nital rma- ns	Rate	3.57	3.68	4.53	5.49	5.32	4.97	4.06	3.39	2.38	2.56
Congenital Malforma- tions	Deaths	32	32	38	53	57	52	40	35	25	25
Diseases of the Digestive System	Rate	1.45	1.72	2.15	2.69	11.01	4.88	2.23	0.58	1.05	0.30
Diseases of the Digestive System	Deaths	13	15	18	26	118	51	22	æ	11	es
Diseases of the espiratory System	Rate	1.67	2.07	2.62	4.04	6.72	4.78	3.96	1.74	1.52	1.84
Diseases of the Respiratory System	Deaths	15	18		39	72	50	39	18	91	18
Neo-Natal Rate		33.46	40.21	36.14	40.17	58.25	48.30	39.68	26.82	23.30	22.86
Deaths under Four Weeks		300	. 350	303	388	624	505	391	277	245	223
Births		996'8	8,704	8,383	9,659	10,713	10,456	9,853	10,327	10,505	9,744
Year		1939	1940	1941	1942	1943	1944	1945	1946	1947	1948

TABLE F

Showing the Maternal Mortality Rate per 1,000 live births analysed according to the cause of death.

	Cause of Death	No. of Deaths	Rate per 1,000 Live Births
Ectopic Gestation	n	 2	 0.20
Toxæmia of Preg	nancy	 3	 0.30
Hæmorrhage of (Childbirth, etc.	 5	 0.51
Other Accidents	of Childbirth	 3	 0.30

TABLE G

Showing the Deaths of Children under one year old per 1,000 births each year from 1929-1948

YEAR		Deaths per 1,000 Births	YE	AR	Deaths per 1,000 Births
1929	 	112	19	39	 85
1930	 	78	19	40	 122
1931	 	90	19	41	 91
1932	 	111	19	42	 92
1933	 	102	19	43	 111
1934	 	80	19	44	 · 89
1935	 	112	19	45	 84
1936	 	101	19	46	 61
1937	 	94	19-	47	 60
1938	 	96	194	48	 45

HOME HELP SCHEME

At the end of the year 53 home helps were employed full-time and 12 parttime. In all 777 cases were dealt with, of which approximately two-thirds were Maternity cases; these were given priority in the allocation of the home helps. The extent of this service continues to be limited by the number of home helps available and we were only able to assist expectant mothers and mothers of children under 5 years throughout the year.

THE BELFAST VOLUNTARY WORKERS' ASSOCIATION

The members of this Association again rendered valuable assistance at the Child Welfare Centres during the year, and we would take this opportunity of recording our appreciation of their continued interest and help in our work.

ANNUAL REPORT OF THE SENIOR MEDICAL OFFICER FOR SCHOOLS for the Year 1948

During the year some very important changes have taken place. They have resulted from the coming into operation of the Education Act, 1947, and of the Health Services Act, 1948, and from the implementation of policy previously decided upon.

As far back as 1936, it was decided that because the treatment of speech defects had an important part to play in the happiness and employability of quite a goodly proportion of the school population, speech therapy should be made available through the school health services. It was only towards the end of 1948 that we have been able to take this important forward step by the appointment of a speech therapist. It is hoped that we will be able to obtain the services of a second during this current year as the numbers to be treated are very considerable.

Another development in the service was the appointment of a physio-therapist to deal with those pupils needing treatment for postural and other physical defects, which would affect them adversely, when they enter industrial or professional life. In ignorance of their later implication, many of these conditions are accepted as unavoidable, and no effort is made to treat them at a time when the structures involved are less set than in later life. With the coming into operation of physio-therapy in the public health service, attention is bound to be focussed more on such defects and a certain amount of education of the public in such matters will result. This will lead to an increased demand for treatment so that one officer could not undertake all the work requiring to be done.

It had been hoped that audiometric tests to discover minor or commencing deafness would have been made available during the year. The lack of suitable apparatus has held up the inauguration of this work which will be the next practical development in the service. There are many children who suffer from a minor degree of deafness, due to infection, which, while it may not interfere with their education, is evidence of a deficiency which, if treated early, will clear up entirely. If left, it will probably be the precursor of a greater degree of deafness in later life.

The coming into operation of the Education Act (N.I.), 1947, made several significant changes in the work of the service.

Firstly medical and dental inspection became compulsory, with the result that the number of refusals of medical inspection dropped forthwith. In addition there was a considerable reduction in the number who were absent at the time of the medical or dental inspection. In the initial stages, it paid, if necessary, to go back to a school to inspect previous absentees, and this action quickly demonstrated, that absenteeism was an unwise expedient to avoid examination. In time this became less practicable and the absentees will have to be dealt with at subsequent visits.

The second important change was the inclusion of medical and dental inspection as a routine function of all grant-aided schools. This brought in all the voluntary schools previously outside our scheme, the most important being the Grammar schools. In these, except for the boarders, there had been no routine medical inspection. As it was left to the Governors of such schools to formulate their own schemes, time has had to be given for this purpose and there are no statistics available yet for this group.

Another result of the Act was the assumption by the Local Education Authority of the onus to see that free medical and dental treatment was made available to every pupil. Thereby they were empowered to pay for, if necessary, all such treatment. Until the coming into operation of the Health Services Act in July, 1948, it was possible to provide spectacles and all other forms of treatment to any child in need.

With the exception of Child Guidance, the provision of artificial limbs and the cost of the operative treatment for Tonsils and Adenoids in Musgrave Park Hospital, no local hospital has passed on the cost of any treatment they gave, although they were entitled to do so. The immediate effect was to cut off any objection parents might have made on the grounds of the expense. It certainly facilitated the issue of spectacles against which the initial cost or that of repairs was always a big stumbling block.

We had hoped to include in this report the result of an investigation into the incidence of Myopia amongst school children which would have indicated the necessity or otherwise of special educational provision in the form of a day school for such pupils. Although the financial arrangements previously referred to permitted the examination of many more children, the enquiry could not be completed because of the coming into operation of the Health Services Act. Under this the Supplementary Eye Services Regulations permitted the free choice of optician or oculist. This automatically diverted a very large number of prospective patients to other sources of supply and rendered the continuance of the investigation inadvisable.

The regulations had another and much more serious effect. In our opinion, spectacles for children should be prescribed only by those qualified to do so using a mydriatic, the effect of which is to put certain muscles in the eyes at rest and thus permit a correct estimate of the degree of defect present in any particular case. Under the existing scheme every child is not so assessed, and it is felt that quite an appreciable number of children who have obtained spectacles other than through a recognised hospital or medical clinic, may be wearing glasses which are quite unsuitable, which may be causing attenuation rather than improvement in sight and the cost of which is being borne out of public funds.

With the coming into operation of the Health Services Act, the responsibility for the provision of staff to man specialist clinics and to carry out operative work has passed to the Hospitals Authority. Already they have assumed responsibility for the full cost of Tonsil and Adenoid operations, for child guidance treatment, and for orthopaedic appliances, for all of which provision had previously to be made out of local rates.

For some little time the number of pupils attending at our clinics dropped very considerably, but after a while the attendances were resumed though to a lesser degree than formerly. This actually worked out advantageously as it allowed the staff to devote more time to each individual case than had been possible previously.

On the dental side we have extended our usefulness by the installation of X-rays. This put us into a better position to assess the dental state of selected cases.

The coming into operation of the Health Services Act has adversely affected our dental scheme by making private practice seem much more attractive and thereby depriving us of the service of personnel to staff our clinics and to maintain a priority service, without which any general dental scheme is bound to fail.

In closing, tribute must be paid to a very loyal staff who have endeavoured to carry out their work efficiently and to the satisfaction of the public whom they serve. Our thanks are due to the Principals of the various schools and to their assistants for the help they have given to facilitate our work. No scheme of health service could function effectively without the encouragement and stimulus derived from the Medical Officer of Health and the Director of Education, who have been behind us through the year in the work we have endeavoured to do.

T. F. S. FULTON,
Senior Medical Officer (Schools).

MEDICAL INSPECTION

Inspection has been confined this year to certain age groups in the primary and intermediate schools and to two special groups in the local authority's grammar schools.

In the primary schools, inspection was arranged for the entrants, intermediate and those hitherto called "leavers," specials and the re-examination group, the last consisting of all those previously found defective.

The entrant group consisted of pupils of various ages, due entirely to the transition of compulsory school age from 6 to 5, and also the coming in of compulsory medical inspection. Hitherto this group consisted of 6's, with some 7's, who had been missed the previous year. From now on entrants should be mainly 5's with some 4's, depending on the type of schools, and the admission rate for those under compulsory school age.

The intermediates are those aged 8 and under 9. The importance of this group is that it contains very many who are undergoing a period of accelerated growth, which coincides with increased educational load.

The "leaver" group was made up of those aged 12 and with possibly some 13's. Since April last and the setting up of Intermediate Schools, this group will disappear and be replaced by one made up of those entering these schools. At a later age, a new group, the 14's, will be brought in, to dispose of those about to leave school and go into industry.

Secondary scholars in the Local Authority's schools have been examined on admission thereto at about the age of 12 and subsequently at approximately age 14.

The special group is composed of any children not dealt with in any of the foregoing groups. They were generally selected following representation by the parent or on account of weakness or deficiencies suspected by teachers or health visitors. This group, as one would expect, contained a high percentage of defectives who were referred for appropriate treatment.

The re-examination groups consisted of those children previously found to be defective and were examined to determine if their previous conditions had received treatment and how far it had been cured or ameliorated.

Because of the strictness of our previous recordings, this group has tended to outgrow all the other groups and has embarrassed us somewhat by the time taken to work through it.

During the past year we have carried out more inspections than at any time previously, in all 39,138. This is an increase of 39.27 per cent. This is explained by an increase in the actual numbers inspected in the various age groups, almost 50 per cent. increase in the number of specials seen, and, as referred to above, an increase of 48 per cent. in the re-examination groups.

Parental response to our invitations to attend at the inspections has been very good, 8,242 being present which corresponds to 42 per cent. of those examined. This shows a slight increase on the 1947 figure.

With the coming into operation of the Education Act, 1947, and the bringing in of compulsory medical inspection, the refusals have dropped from 289 in the first quarter to three in the rest of the year. Even these were sent in under a misunderstanding of the conditions which prevailed.

Absenteeism is another means of avoiding medical inspection. Many are genuinely ill and it is only in the very large schools, in which it is necessary to stay for some considerable time, that such cases can be picked up, should they return before the staff have finished the current programme of work. Doubtless compulsory medical inspection has helped to reduce the number of absentees for the last year; these were only 1,557, a reduction of over 26 per cent. from the previous year's figure.

Primary Schools.

Routines							Re-exam- inations	Totals
Ages	4–6	7	8–9	12–13	Other Ages			
Boys Girls	2,434 2,342	1,328 1,168	3,064 3,262	2,751 2,713	262 298	491 524	8,943 9,558	19,273 19,865
Totals	4,776	2,496	6,326	5,464	560	1,015	18,501	39,138

INSPECTION OF SECONDARY PUPILS

The new act provided that all those pupils attending grammar schools should be examined, medically and dentally.

Time had to be given to these voluntary grammar schools to decide whether or not they would provide their own scheme of inspection. Under the circumstances it was only possible to carry through the necessary work in the two maintained by the Education Authority, the Grosvenor and Technical High Schools.

The subjoined table gives the details of the numbers inspected. In due course it should be possible to reduce those seen down to the various age groups and so help comparative figures to be obtained.

TABLE I. (B)

Secondary Schools.

ROUTINE EXAMINATIONS

Age	12	13	14	15	16	17	18	Totals
Boys	3	42	99	69	9	4	5	231
Girls	3	45	105	24	_	_	3	180
Totals	6	87	204	93	9	4	8	411

Refusals of inspection and absentees were to be found amongst this group of pupils, there being 9 of the former and 23 of the latter.

VACCINATION

We are concerned with the vaccinated state of the school population, because vaccination against smallpox is still compulsory in this country. For years past, because enforcement was probably not being carried out, the number of those who were not satisfactorily vaccinated has been very high. In 1947 there was an improvement among the youngest age groups, and it was hoped that that was a sign of a change. Examination of the 1948 figures, however, discloses that the former figures indicated only a temporary improvement and the position now is that approximately 23 per cent. of the groups examined were not vaccinated at all.

AVERAGE HEIGHTS AND WEIGHTS

In comparing the figures for 1948 with those for 1947, we find a peculiar result. The weights for both boys and girls in the Intermediate group have increased substantially, for the boys more than the girls. In the other group, the average weights are considerably less. Taking the heights for the Intermediate group, we find that both boys and girls are slightly shorter than the 1947 group, while in the other two groups, a slightly greater divergence on the wrong side is noticed.

TABLE 2.Average Weights and Heights—Primary Schools.

		BOYS	,	GIRLS						
Age	Number examined	Ave. height (inches)	Ave. weight (1bs.)	Age	Number examined	Aver. height (inches)	Aver. weight (lbs.)			
4	7	39.6	39.1	4	15	38.5	36.9			
5	397	41.6	40.6	5	465	41.1	39.2			
6	2,030	43.4	43.7	6	1,862	43.0	42.2			
7	1,328	45.1	47.5	7	1,168	44.6	45.2			
8	1,861	49.0	56.6	8	1,924	48.4	53.8			
9	1,203	49.7	59.6	9	1,338	48.9	56.1			
10	167	50.8	60.0	10	211	50.0	58.1			
11	80	54.0	70.9	11	77	53.2	66.8			
12	2,566	55.4	75. 0	12	2,530	55.2	74.9			
13	185	56.7	79.3	13	183	57.1	81.2			
14	15	56.6	79.4	14	10	57.8	85.2			
	9.839				9,783					

CLOTHING AND FOOTGEAR

Attention has been paid to the clothing and footgear of all the pupils inspected. There is little variation in the clothing position, most children are clad satisfactorily, and the parents of any found otherwise are notified and requested to bring about an improvement.

With regard to footwear, the position is less satisfactory although there has been an improvement over a period of years. Now there are 4 per cent. fewer children wearing boots than there were in 1946. In that boots are more likely to be defective even this reduction is all to the good. By reference to the table, it will be seen that the defectives in both groups have been reduced appreciably.

The assessment of the suitability or otherwise of footgear has been based in part on measurement with a standard sizeing stick of the feet and of the footgear worn.

TABLE 3.

	Percent	tage Satis	factory	Percenta	age Unsat	isfactory	Percentage Wearing		
	1946	1947	1948	1946	1947	1948	1946	1947	1948
Clothing	99.61	99.85	99.81	0.39	0.14	0.19			
Footwear—Shoes	92.38	96.05	96.51	7.62	3.95	3.49	75.36	76.80	79.68
" Boots	88.63	93.64	95.34	11.37	6.36	4.66	24.64	23.20	20.32

DEFECTS DISCOVERED AT MEDICAL INSPECTION

In the subjoined Table is set forth a summary of the findings of the medical inspection of 19,622 elementary and of 411 secondary scholars. These groupings have been retained to enable us to contrast these figures with those for previous years.

Taking the over all picture it seems that there has been an all round reduction in the number of defects found. Detailed examination, however, reveals that there has been an increase in the numbers noted for speech defects, nervous conditions, deformities other than those due to rickets and in tuberculosis of bone and gland. Amongst the groups referred for treatment we find an increase in Adenoids only and in chronic Tonsillitis and Adenoids.

The listing of defects is unconsciously affected by the availability of measures for amelioration. With the proposed inauguration of speech therapy in school clinics one can expect the figures for treatment for such to be loaded somewhat.

The incidence of skin disease has continued to decline and has reached the lowest level recorded since 1940. Scabies has become quite a rarity in comparison with its occurrence during the war years.

In considering the return given for the inspection of secondary pupils we find, with few exceptions, a general reduction here too. There has been a very significant fall in the amount of skin disease to which a certain type of adolescent is peculiarly prone.

The only conditions showing increases are those in the observation groups for defects of vision (including squint), bronchitis and allied affections.

TABLE 4.

C	LASSIFICATION	NATURE OF DEFECT	No. exd.	Defective for Treatment	Per 1,000	Defective for Observation	Per 1,000
1.	Skin Disease		19,622 (411)	366 (8)	18.64 (19.37)	58 (2)	2.95 (4.87)
2.	Defects of the eye	External Eye Disease,etc.	do.	233 (1)	11.86 (2.43)	91	4.64 · ·
		Defective Vision*	12,017 (411)	1,686 (30)	140.30 (73.00)	362 (39)	30.12 (94.90)
		Squint	19,622 (411)	664 (4)	33.84 (9.73)	334 (3)	17.02 (7.30)
3.	Defects of the Ear	Discharging Ear	do.	164 (2)	8.36 (4.87)	158 (1)	8.05 (2.43)
		Other Diseases	do.	145	7.39	40	2.04
		Defective hearing (Other than above)	do.	101	5.15	31	1.58
4.	Defects of the Mouth, Nose and	Ch. Tonsillitis	do.	1,996 (15)	101.72 (36.50)	3,642 (17)	185.61 (41.37)
	Throat	Adenoids	do.	79	4.03	28	1.43
		Ch. T. and Adenoids	do.	281	14.32	263	13.40
		Neck Glands, enlarged	do.	804 (2)	40.97 (4.87)	930 (5)	43.40 (12.17)
		Other Nose and Throat conditions	do.	243 (2)	11.82 (4.87)	88	4.48
5.	Defective Speech		do.	117 (2)	5.97 (4.87)	114	5.81
6.	Defects of the Heart and Lungs	Heart conditions	do.	187 (2)	9.53 (4.87)	264 (4)	13.48 (9.74)
		Phthisis	do.	13	0.66	7	0.35
		Bronchitis,etc.	do.	1,180 (8)	60.14 (19.47)	877 (5)	44.69 (12.17)
7.	Constitutional Diseases	Anæmia	do.	153 (3)	7.80 (7.30)	135 (2)	6.88 (4.87)
		Tuberculosis of Bone and Glands, etc.	do.	24	1.22	29	1.48
		Rickets and Rickety Deformity	do.	55 (2)	2.80 (4.87)	25	1.27
8.	Defects of the Nervous System		do.	34	1.74	35	1.79
9.	Deformities other than due to Rickets		do.	376 (10)	19.16 (24.34)	194 (4)	9.88 (9.73)
10.	Other Diseases and Defects		do.	709 (9)	36.13 (21.90)	290 (3)	14.78 (7.30)

^{*} Only those children in the "Intermediates" and "Leavers" groups were examined in a routine way for defective vision.

Figures in brackets are related to the Medical Inspection of Secondary School Children.

COMPARATIVE NUTRITION SURVEY

The findings of the nutritive state of the children inspected depends almost entirely on personal opinions of the various medical officers carrying out the inspections. They are likely to be influenced by varying factors. In such cases this Table can only show an imperfect picture of the comparative state of nutrition.

TABLE 5Comparative Nutrition Table—Elementary Schools.

GROUP	rs		A ellent)		B rmal)	(Sli	C ghtly ormal)		D (ad)
Sex		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
	Number	996	836	2,226	2,024	685	782	18	38
Entrants	% ages	25.38	22.72	56.71	55.00	17.45	21.25	0.46	1.03
Intermediates	Number	907	919	1,598	1,591	577	790	20	33
Intermediates	% ages	29.24	27.57	51.51	47.74	18.60	23.70	0.65	0.99
Third age group	Number	675	814	1,654	1,440	513	468	7	11
Third age group	% ages	23.69	29.78	58.06	52.69	18.01	17.13	0.24	0.40
TOTALS		2,578	2,569	5,478	5,055	1,775	2,040	45	82
AVERAGES		26.10	26.36	55.47	51.87	17.97	20.93	0.46	0.84
GRAND TOTAL	s	5,1	47	10,	533	3,8	15	12	27
1948 Average %		26.	23	53.	68	19.	44	0	.65
1947 Average %		23.	20	54.	10	22.	23	0.	.47

Taking the Table as a whole, we find that there has been a reduction in the number of pupils recorded as slightly subnormal (C), and that there has been almost a proportional increase in the (A) group.

In the Entrant and Intermediate groups there has been a very slight increase in the number found to be of "bad" nutrition (group D).

A comparative nutrition Table for the Secondary schools is appended. The Entrant group in these schools corresponds roughly to the third age group in the Elementary schools. It will be seen that the nutritional state of the Secondary scholar compares very favourably with that of his opposite number in the elementary schools.

TABLE 6Nutrition Table—Secondary Schools.

GRO	UPS		A (Excellent)		B (Normal)		C (Slightly sub-normal)		D (Bad)	
Sex		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
Federate	Number	13	57	150	78	28	39			
Entrants	% ages	6.81	32.76	78.53	44.83	14.66	22.41			
T 41	Number	28	3	12	1	2				
Fourth age grou	% ages	66.67	75.00	28.57	25.00	4.76				
TOTAL		41	60	162	79	30	39			
% AGES		17.60	33.71	69.53	44.38	12.87	21.91			

PROVISION OF MILK AND MEALS

It is opportune at this stage of the report to state that all pupils have the opportunity to take milk in school, that is on five days in the week during term time. The necessitous case receives 2/3 pint daily instead of the normal 1/3 pint. All the milk supplied is pasteurised, being sent out in 1/3 pint bottles. "Straws" are provided through which it can be withdrawn.

Certain pupils who are prevented from attending school, either elementary or special, because they are physically or mentally handicapped, are able to obtain supplementary milk at a reduced cost through the food office. This enables the parent to receive one pint of milk from the normal retailer at a reduced rate. The Ministry defray the extra cost as provided for in S.R. & O. No. 1673 of 1947 for C grade milk.

Actually in Belfast at present the milk supplied is B pasteurised, though it is possible that grade C could be supplied.

VISUAL DEFECTS

Below are repeated Tables similar to those produced last year, indicating (1) the sex and distribution of visual defects, and (2) the relation between the incidence and the school at which the child was in attendance when seen. By comparison with the 1947 figures this year's findings are somewhat better all round except in the boys' intermediate 6/12-6/24 group.

TABLE 7

(1)

	IN	TERM	EDIAT	ES	THIRD AGE GROUP				TOTALS			
	Boys	Boys % Girls %				Boys % Girls %		Boys	%	Girls	%	
6/6- 6/9 R or L	2,551	82.24	2,746	82.39	2,424	85.08	2,248	82.46	4,975	83.60	4,994	82.33
6/12– 6/24 R or L	398	12.83	463	13.89	316	11.09	365	13.35	714	12.00	828	13.65
6/36– 6/24 R or L	153	4.93	124	3.72	109	3.83	120	4.39	262	4.40	244	4.02
Total	3,102		3,333		2,849 2,733				5,951 6,066			

(2) Incidence of Defective Vision in Relation to Type of School.

School Rating	6/6-6/9	%	6/12-6/24	% %	6/36 or over	%	Total
1	1,130	77.45 (78.44)	272	18.64 (14.95)	57	3.91 (6.61)	1,459
2	1,798	79.14 (80.84)	357	15.71 (13.55)	117	5.15 (5.61)	2,272
3	7,041	84.97 (83.18)	913	11.02 (12.62)	332	4.01 (4.20)	8,286
Total	9,969	82.96 (81.98)	1,542	12.83 (13.16)	506	4.21 (4.86)	12,017

School groupings are (1) those unsatisfactory for school purposes; (2) those considered satisfactory or capable of being altered to come within this category, and (3) those, mostly modern type, permitting proper environment during school hours. In general it can be expressed by, the poorer the building the greater the degree of defective vision and the more cases there will be. It must not be overlooked that the deficiency which develops in a bad school is carried on through promotion to a senior one and so effects the percentage of that which possibly is a better school.

RE-EXAMINATION GROUP

In the subjoined Table is set out the results of the re-examination of all those children previously found defective who were re-inspected during the year to discover the treatment each had received and the result of such treatment.

As will be seen approximately 50% of those referred for treatment never received any. Fortunately, of these 40% improved despite this lack. In actual fact, therefore, only 30% of all those referred could be said to be cases of neglect.

Of those receiving treatment, a little less than a quarter were cured of the condition for which they were referred while a little less than 3/5ths were definitely improved.

TABLE 8.

Total No. Due 22,871
Total No. Re-examined 17,808

No. Boys Seen 8,882 No. Girls Seen 8,926

				TDE	ATED		110	NTREAT	ED	Observation
DEFECTS	OF		Cured	Imp.	ATED Same	Total	Imp.	Same	Total	Observation only
Mal-Nutrition			134	472	87	693	221	253	474	506
mai-ivutition	• • •	••	(19.3)	(68.1)	(12.5)		(46.6)	(53.4)		_
Skin		••	13 (41.9)	14 	4	31 —	3 —	1 	_4	
Eyes—Vision	• •	• •	95 (3.6)	1,841 (70.8)	663 (25.5)	2,599 —	753 (51.4)	710 (48.5)	1,463 —	1,814
,, Squint*			20 (2.1)	484 (51.1)	442 (46.7)	946	89 (30.4)	203 (69.5)	292 ×	314
,, O.C.	• •		36 (36.3)	53 (53.5)	10 (10.1)	99	10 (29.4)	24 (70.5)	34 —	77
Ear			93 (37.3)	129 (51.8)	27 (10.8)	249 —	49 (34.5)	93 (65.4)	142 —	173
Nose and Thro	at		808 (76.1)	195 (18.3)	58 (5.4)	1,061	1,283 (33.1)	2,586 (66.8)	3,869	3,091
Speech			6 (16.6)	27 (75.0)	(8.3)	36 —	17 (20.2)	67 (79.7)	84	226
Heart		• •	12 (13.9)	55 (63.9)	19 (22.0)	86 —	25 (38.4)	40 (61.3)	65 —	326
Lungs	• •		235 (30.4)	455 (58.9)	82 (10.6)	772 —	256 (45.4)	307 (54.5)	563 —	711
т.в			(3.7)	23 (85.1)	3 (11.1)	27	3 (42.8)	(57.1)	7	99
Nervous			(7.1)	21 (75.0)	5 (17.8)	28 —	5 (38.4)	8 (61.5)	13 —	39
Orthopædic	• •		26 (20.9)	84 (67.7)	14 (11.2)	124	27 (20.1)	107 (79.8)	134 —	214
M. Retarded	••		_	14 (93.3)	(6.6)	15 —	17 (28.3)	43 (71.6)	60	202
Other Conditio	ns		133 (37.5)	180 (50.8)	41 (11.5)	354	111 (37.2)	187 (62.7)	298 —	455 —
Totals	••	• •	1,614 (23.0)	4,047 (57.0)	1,459 (20.0)	7,120 —	2,869 (38.0)	4,633 (62.0)	7,502	8,276

^{*} Not included in "Vision."

Figures in brackets are percentages.

SPECIAL SCHOOLS

The Nursery Schools—Arellian and Edenderry

Strictly speaking these should not be classified as special schools as they are not for handicapped children but only for those whose home circumstances warrant their admission to a nursery school. They are included here because the medical supervision of the pupils differs from that given to the children attending the ordinary school.

As in previous years they have had daily visits from a nurse and a weekly visit from a medical officer. This has enabled us to give each toddler full examination once per term, and at the same time deal with any intercurrent condition which might have arisen. The defects found have been so negligible that they do not warrant putting into Table form. Chronic Tonsillitis was the most common cause for referral for treatment, while deformities, chest conditions and other nose and throat defects were chiefly the reason for requiring observation and reexamination at later dates.

The nutritional state of the children was very satisfactory. Grading them to that used for the elementary pupil we get the following percentages; excellent, 29.92 (26.23); normal, 57.66 (53.68); slightly subnormal, 12.40 (19.44); bad, nil (0.65).

(Figures in parenthesis are those comparable for the elementary scholars).

Except for a small outbreak of measles in one school, there has been practically no infectious disease amongst this group of children.

In common with the other children, they have received their daily school milk, and special attention has been paid to their diet, which has been provided through the School Meals Service. In addition, orange juice and cod liver oil have been supplied through the clinic, requisitions for these being made upon the Ministry of Food.

Graymount Open-Air School

During the year 88 boys and 80 girls spent some time in this school. The new admissions during the year were 30 boys and 25 girls. There was an average of 129 on rolls through the year and the attendance averaged 107.

Considering the type of case sent to this school, these figures can be taken as satisfactory except that it is to be regretted that we have so few school places available. We are receiving recommendations for admissions from differing sources, and are hard put to it to differentiate between them and to give proper priorities.

Examination of the details of those pupils sent back to the ordinary schools during 1948 gives the following interesting and instructive result.

Boys, 23.		
Girls, 23. Total, 46.		
	Boys	Girls
Average Stay in Months	 24	27
Average Gain in Height in inches	 3.7	4.5
Average Gain in Weight in lbs., ozs.	 12:6	20:1

Results for Total (46).

Average Stay in Months, $25\frac{1}{2}$ Average Gain in Height, 4 inches. Average Gain in Weight, $16\frac{1}{4}$ lbs.

Arrangements have been made during this year for buses to pick up the pupils near their homes and take them right up to the school. This saved them from having to leave home at an early hour and travel to the City Centre to await for transportation thence to the school. On arrival in school they get a snack. During the day they have their school dinner followed by a rest period. Then prior to returning home by bus, they get another snack, generally consisting of milk, bread, butter and jam, or something similar.

Oakleigh School

This is a school for educationally subnormal children to which they are admitted after careful consideration of their progress or otherwise in the ordinary school.

The cases generally arise as the result of a report from the teacher or a recommendation from the child guidance clinic, following their investigation into behaviour and other problems.

As a rule the decision is based upon a school report, supported by a medical examination and an intelligence test.

Hitherto it has been the custom for the parent and the children selected to be interviewed by one of the Ministry's medical officers to confirm the findings. This has strengthened the hands of the Local Authority to secure admission of the suitable candidates, and at the same time has served as a check on our findings.

During the year there was an average of 160 in attendance, 198 being carried on the roll. The school, like all day special schools has received a weekly visit from a medical officer and a health visitor has paid two visits each week. Routine medical and dental inspections have been carried out and the findings incorporated into those obtained in the ordinary schools as from that point of view these pupils must be treated as similar to those in the ordinary school.

Camp School

During the year the Education Authority organised a camp school at Dundrum, Co. Down. It was housed in a holiday camp which was leased. The quarters previously had been a military camp consisting of nissen huts fitted up with double bunks in the sleeping quarters.

The pupils were selected from those schools in which were to be found those children who would benefit by such a change of environment. The party generally consisted of 60 boys or girls together with two of their teachers and at times one voluntary helper.

All the children were medically examined prior to final acceptance, any minor conditions, especially of uncleanliness, were cleared up prior to departure for the week's stay in camp.

Arrangements were made with a local practitioner to act as visiting medical officer to the camp. This enabled all emergencies to be dealt with promptly.

In general, the health of the pupils was very good and out of 654 boys and 306 girls who passed through the camp only one had to go to hospital and one other to be sent home because of the recurrence of an old ailment, about which we had been kept in ignorance.

The organiser of school meals supervised the feeding arrangements, the necessary ingredients being supplied through the school meals contract, and cooked in the camp kitchen.

SCHOOL HEALTH ACTIVITIES OTHER THAN THAT CARRIED OUT IN SCHOOLS

Clinics

There are only three clinics serving the whole city. The Central Clinic is an administrative centre at 40 Academy Street. It has to serve the South and West quarters of the County Borough. This entails a very considerable journey for the parents and children from the outlying schools in these areas.

To overcome this objection, a site for a clinic in Cupar Street to serve the West area has been mooted, and is due to be taken by vesting order.

To provide for the South, a request has been made that the premises previously used as a dispensary in Glengall Street be transferred to us to enable the medical side of our work to be brought nearer that area, until a more commodious building, large enough to house all the public health clinic service for this area, is available.

The North West area of the city is served by the clinic at Carlisle Circus. This is merely a terrace house, adapted for the purpose, to which has been added temporarily the upper storey of the neighbouring building. This is much too small for our purpose, quite out of date, and gives the public too few and unsatisfactory facilities. Its replacement by another modern building in this locality has been under consideration for some time and is long overdue.

East Belfast is served by an old school building converted into a clinic situated at Cherryville Street. It has become too small already and cannot serve this area adequately. Plans are in hand for its enlargement. This will help somewhat, but eventually there will have to be a subsidiary clinic for this area, as the present one is eccentric to the area which it should serve.

THE WORK OF THE SCHOOL HEALTH VISITOR

The duties of the health visitor are changing gradually to provide a much better service than existed formerly. This will in time make the duties much more worth while and give greater interest to those employed. Newly enacted legislation has altered the relationship between the various Authorities and the public they serve. As a sign of the times, the staff has been called upon to follow up patients who have failed to co-operate with the Hospital Authority in the utilisation of treatment, or in reporting for consultation previously arranged.

In addition to these and allied duties they have assisted at medical examination, the visitation of special schools, the carrying out of treatment in the clinics and "cleanliness" inspections. In connection with all these duties, they paid 8,100 home visits during the year, an increase of 11 per cent. over the previous year's figure.

During the cleanliness surveys 253,872 children were inspected. Of these 6.23 per cent. had nits, the eggs of vermin and 1.40 per cent. were actually verminous. The latter figure is somewhat better than the corresponding one in 1947, but the figure for nits is not so good.

With so many new preparations on the market capable of controlling and even eradicating this condition the incidence is not satisfactory. However much one reduces the school incidence, there is always a reservoir of infection amongst the mothers or younger children of the families concerned. Nothing but radical treatment of the whole family at one and the same time can eventually eradicate this condition.

MEDICAL AND SPECIAL TREATMENT

This work can be divided into several groups, viz., (1) Examination Clinics; (2) Eye, Ear, Nose and Throat Clinics; (3) Dental Treatment; (4) Tonsil and Adenoid Operation; (5) Ultra Violet Light Therapy; (6) Minor Ailments; (7) Child Guidance; (8) Speech Therapy; (9) Physio-therapy; (10) Head Cleansing.

Excluding dental patients for whom separate records are kept, the number of individuals passing through the clinics during the year was 14,990 which is a slight reduction on the number handled the previous year.

This is a very considerable proportion of the school population and shows how much the clinics meet their requirements. Of the number seen 1,743 were referred to private practitioners for treatment, being 4.93% of those attending.

EXAMINATION CLINICS

This is essentially an all purpose clinic. With the exception of those requiring dental treatment and those specially allocated at medical inspection to eye, ear, nose and throat treatment all pupils requiring any form of treatment in the clinics have to pass through this one. It acts by screening all cases, giving advice and supervision to some, passing others on to appropriate form of treatment and generally keeping a watchful eye on all those who have passed through.

From time to time it is necessary to call back for re-examination, those who have been advised, to ensure that adequate treatment is being given and that there is no remission.

The following Table gives some idea of the diversity of the conditions handled though it does not represent the time involved in the inspection of the different groups. More often than not those cases which give little promise of improvement or return for the time expended demand a disproportionate expenditure of time and energy. A considerable number of the cases seen are given individual appointments to allow investigation being made as full as possible.

TABLE 9Clinic Examinations.

CONDITION	Percentages	CONDITION	Percentages
For Anaesthetics	35.45	Heart and Circulation	1.32
,, Colds	2.72	Infectious Diseases	1.95
,, Debility	2.34	Lung Conditions	5.68
,, Ears	2.60	Nose and Throat	7.50
,, Eyes—vision only	3.64	Skins	17.90
,, —other conditions	2.30	Other classified small groups	8.85
,, Gastro-intestinal	2.41	Miscellaneous—unclassified	2.97

The attendances at the clinics have been well maintained, 33,525 being the year's total. Of those seen, 253 were referred to the Tuberculosis Officer for examination and, when considered necessary, further treatment.

There are a few special cases which should be handled through the clinic but owing to peculiar circumstances cannot be brought to the doctor. In these cases we arranged for them to be seen in the privacy of the home as this saves the parents unnecessary publicity. They cannot be allowed to go by default as most of them have to be reported to other authorities who are interested to know of their existence. There were only 12 such cases last year, and these were eventually disposed of by notification under Section 30 of the Education Act, 1947.

EYE, EAR, NOSE AND THROAT CLINICS

From time to time in the past we have had to institute waiting lists for refractions. This generally resulted from the re-examination groups and pupils who had had spectacles ordered previously. Once the cost of spectacles was transferred to the Local Authority by the Education Act of 1947, the need to persuade parents to obtain spectacles lessened very much. With the coming into operation of the Health Service Act, the general demand for glasses was no whit less amongst the school population and we have had a constant waiting list ever since. Naturally this has meant a greater number have been tested, and has raised this year's total to 3,555 which includes 847 post-mydriatic tests.

For the past 4 months of the year, all spectacles ordered went through the Supplementary Eye Service channels. Thus we are unaware of the type of frame ordered and cannot check whether the glasses supplied are up to prescription. In time we may be able to review the position but until this has been done we will not be sure how this service had worked.

Ear, nose and throat cases have been referred to the visiting specialist who has held a clinic once weekly. Through this a certain number of cases suitable for operation are selected and dealt with in the Musgrave Park Hospital. Other cases have been referred to selected hospitals for treatment which could not be given in the clinic. By comparison with 1947 there was a slight reduction in the number seen, the total being 2,025 and of these 120 required no treatment.

ORTHOPAEDIC TREATMENT

There is no special orthopaedic section in the clinic. All cases discovered if of major degree are referred to the Hospitals Authority. In the past, most cases were sent to the special clinic held in the Belfast City Hospital. This institution was then rate-aided and therefore could be used without the Education Authority being required to pay for their attention. Minor defects were referred to the physiotherapist for remedial exercises.

Any definite or doubtful tubercular cases were referred to the Northern Ireland Tuberculosis Authority for diagnosis and/or treatment.

RHEUMATIC AND CARDIAC cases have received particular attention.

There was a close liaison between the medical officers in our various clinics and the Rheumatic Clinic set up in the Royal Belfast Hospital for Sick Children. Cases were referred as they were discovered and reports were sent us from time to time of all school children who were treated. By this we were kept informed regarding most of the serious cases in the city.

DENTAL TREATMENT

Complete details in the numbers inspected and treated, of the schools from which they came and the type of treatment given will be found in the report of the Senior Dental Officer which follows.

There is ample evidence forthcoming that the potentialities of this service are limited merely by the lack of accommodation and the necessary professional staff to provide the treatment required.

Until the latter problem is solved it would appear that progress must be held up.

BELFAST COUNTY BOROUGH HEALTH COMMITTEE ANNUAL DENTAL REPORT, 1948

Dr. T. F. S. FULTON, M.B., B.Ch., D.P.H.,

Senior Medical Officer (Schools).

Dear Sir,

I beg to submit to you my Annual Report and Statistical Tables covering the work of the Dental Section for 1948, together with comparative figures in respect of the past three years. Main Statistics in summarised form, as required by the Ministry of Health and Local Government, are further appended.

DENTAL INSPECTION IN SCHOOLS

All Elementary, High, Special and Nursery Schools for which we are responsible were visited by the inspecting officers during the year, making a total of 160 schools visited. The total number of children notified for inspection was 60,545. Of this total only 7 refused. Those absent on the days of inspection numbered 8,074 or 13.3%. This percentage, however, approximates to the normal absentee percentage, and therefore cannot be said to have any dental inspection significance. The resultant number of children examined was 52,464, an increase of 6.8% on the previous year. The number of sessions required for inspections totalled 384, an average of 136 children being inspected per session. The year's inspection survey included the examination of 1,166,803 teeth.

DENTAL CONDITION OF CHILDREN INSPECTED

The number of children found to have dental defects totalled 40,725 or 77.6% of those inspected. Analysis of the defects shows that 14,993 children required extractions, 36,318 required fillings, while 11,157 required both extraction and filling treatments. A total of 1,597 were in need of orthodontic treatment.

Although the percentage defective for the current year is less than the preceding year by 2.6% and is 5.5% less than in 1946, I am not prepared to say at this stage that the persistently high defect-percentage of the past is now being progressively reduced. It is nevertheless gratifying to record a substantial drop over the past two years, and one could reasonably hope that it is in some measure due to the considerable number of conservation treatments we are now providing for the children, and which have been made possible by the provision of additional operating staff. There is little room for complacency however. The condition-figures I have given indicate treatments required far beyond the current yearly capacity of the Section.

A Statistics Table showing condition of defectives in relation to age groups is provided as a matter of interest. It should be disregarded in respect of the extreme groups since an insufficient number of children were inspected to furnish a true percentage average.

DENTAL INSPECTION: STATISTICAL TABLES

SCHOOL DENTAL INSPECTION	Area 1	Area 2	Area 3	Totals
umber of Schools visited	63	55	42	160
., ., ., (per cent.)	(100)	(100)	(100)	(100)
umber of Visits	145	143	112	400
,, ,, Inspection Sessions	137	137	110	384
umber inspected per Session (average)	137	136	136	136
nildren notified for Inspection	21,653	21,732	17,160	60,545
,, ,, ,, (per cent. of Rolls)	(98.1)	(96.7)	(97.1)	(97.3)
nildren Refusing Inspection	3	(00.7)	\(\(\lambda \cdot	(37.5)
,, Absent from Inspection	2,764	3,171	2,139	8,074
,, ,, ,, (per cent.)	(12.8)	(14.6)	(12.5)	(13.3)
pys Inspected (City)	9,885	9,578	7.694	27,147
,, Defective ,,	7,411	7,410	5,863	20,684
,, ,, ,, (per cent.)	(75.0)	(77.4)	(76.2)	(76.2)
rls Inspected (City)	8,919	9,010	7,180	25,109
Defeative	7,198	7,229	5,453	19,880
/ 1	(80.7)	(80.2)	(75.9)	
ildren Inspected (Outside City)	40	15	143	(79.2)
Th. f41 -	31	15	115	198
ATAL CHILDDEN INCRECTED				161
	18,844	18,603	15,017	52,464
,, ,, (per cent. of Rolls) DTAL CHILDREN DEFECTIVE	(85.4)	(82.8)	(85.0)	(84.3)
	14,640	14,654	11,431	40,725
,, ,, (per cent.)	(75.8)	(78.8)	(76.1)	(77.6)

CLASSIFICATION OF DENTAL	DE:	FECTS	Area 1	Area 2	Area 3	Totals
Unsaveable Teeth			5,354	5,891	3,748	14,993
Saveable Teeth			13,283	13,351	9,684	36,318
Saveable and Unsaveable Teeth			4,035	4,697	2,425	11,157
Irregularity of Dentition			591	680	326	1,597
Other Dental and Oral Defects			973	1,098	460	2,531
Total Teeth Unsaveable			10,624	13,553	7,802	31,979
,, ,, Saveable			44,551	40,571	34,933	120,055
TOTAL TEETH EXAMINED			421,667	411,306	333,830	1,166,803

CLASSIFICATION OF DEFECTIVES:

A mo		BOYS			GIRLS	,
Age Groups	Inspected	Defective	Per cent. Defective	Inspected	Defective	Per cent. Defective
3	20	14	70.0	9	6	66.7
4	121	69	57.0	118	79	67.0
5 .	1,320	881	66.7	1,210	853	70.5
6	2,981	2,100	70.4	2,801	2,122	75.8
7	3,132	2,334	74.5	2,858	2,253	78.8
8	3,067	2,369	77.2	2,797	2,302	82.3
9	3,090	2,481	80.3	3,044	2,573	84.5
10	3,196	2,587	80.9	2,982	2,444	82.0
11	3,048	2,378	78.0	2,869	2,252	78.5
12	2,858	2,124	74.3	2,671	2,081	77.9
13	2,582	1,970	76.3	2,372	1,845	77.8
14	1,529	1,199	78.4	. 1,289	1,005	78.0
15	230	184	80.0	131	103	78.6
16	72	58	80.6	26	22	84.6
17	22	20	90.9	12	11	91.7
18	1	1	100.0	6	5	83.3
Totals	27,269	20,769	76.16	25,195	19,956	79.2

STATISTICAL TABLE Post-Inspection Notification and Parents' Response

NOTIFICATION TO DEFECTIVES	Area 1	Area 2	Area 3	Totals
Notified as Defective	8,616	10,896	8,848-	28,360
,, (per cent.)	(58.8)	(74.3)	. (77.4)	(69.6)
PARENTS' RESPONSE	Area 1	Area 2	Area 3	Totals
Refusing Treatment	1,275	1,521	1,160	3,956
,, ,, (per cent.)	(14.8)	(14.0)	(13.1)	(13.9)
No Response	643	914	529	2,086
,, ,, (per cent.)	(7.5)	(8.4)	(6.0)	(7.4)
Consenting to Treatment. (Total)	6,698	8,461	7,159	22,318
,, ,, ,, (per cent.)	(77.7)	(77.7)	(80.9)	(78.7)
,, ,, (By Own Dentist)	1,574	1,955	1,176	4,705
,, ,, ,, (per cent.)	(23.5)	(23.0)	(16.4)	(21.1)
,, ,, (At Clinics)	5,124	6,506	5,983	17,613
,, ,, (per cent.)	(76.5)	(77.0)	(83.6)	(78.9)
TREATMENT ARRANGED	Arca 1	Area 2	Area 3	Totals
Appointments—				•
Issued (Total)	5,124	6,506	5,983	17,613
Per cent. Defectives Notified	(59.5)	(59.7)	(67.6)	(62.1)
Per cent. Defectives Inspected	(35.0)	(44.4)	(52.3)	(43.2)
Per cent. Defectives on Roll	(30.6)	(36.7)	(44.5)	(36.5)

ACTION TAKEN SUBSEQUENT TO SCHOOL DENTAL INSPECTION

Until an adequate treatment staff is available, it is not possible to notify parents of all the defective children. Notifications are therefore mainly restricted, by priority, to children in the extraction category, and to those requiring conservation of the permanent dentition. It is somewhat paradoxical that, in doing so, we ignore those requiring conservation of the temporary dentition, thereby failing to substantiate the maxim, with all its implications, that "Baby's first teeth do matter," but at the moment there is no option. Even so, on this basis of priority notification, tempered as it is by a percentage reduction in the total ultimate agreements to treatment, the greatest difficulty is experienced in meeting the demand for attention, and long waiting lists for treatment at our clinics prevail.

For the reasons stated it was consequently only possible to issue notices in respect of 69.6% of the total defectives. Of the percentage thus notified, 13.9% refused treatment and 7.4% failed to reply. The balance, 78.7%, agreed to accept treatment, 21.1% by own dentist, and the remainder, 78.9%, asked for treatment at our clinics.

It is interesting to note that approximately four out of every five children agreeing to have treatment prefer that this should be obtained at the Committee's clinics. In respect of these children, totalling 17,613, appointments were duly issued.

ATTENDANCES AT CLINICS

During the year there was the usual representative attendance of children from all schools entitled to treatment. A total of 16,798 individual children availed themselves of the service, and between them made 52,177 attendances. This represents, in total patients, a 10.1% increase over the previous year. Of those attending, no less than 84.8% were patients returning for treatment, a percentage which expresses both dental consciousness on the part of the parents and appreciation of the treatment provided.

Statistical Table: Attendances at Dental Clinics

All Saints' Junior	School				Total on Rolls	Children attending Clinic	Total Clinic attendances	· Total treatments
Asyle	ELEMENTARY SCHOO	DLS: A	REA	. 1				
Ashmore Street Junior 267 38 103 140 80 131 140 80				• •				
Blythe Street Junior	Argyle							
Botanic 463 120 353 390 Broadway Junior 305 79 236 285 Brown Street 466 90 211 345 Dongall Road Junior 504 203 692 879 Earl Street Gris 124 12 35 48 Earl Street Infants 166 20 47 85 Fane Street Senior 894 180 525 417 Grosvenor Senior (Closed June) 45 14 33 25 Linfield Senior 699 89 282 283 Mabel Street Junior 364 71 215 333 Magdalene Junior 168 43 145 203 Madone 437 115 450 508 Mariners' 290 39 92 219 Mayo Street Junior 332 82 257 332 Northumberland Street 349 79 226 336								
Broadway Junior 305 79 236 265 Brown Street 466 90 211 345 Donegall Road Junior 504 203 692 879 Earl Street Boys' 126 16 33 48 Earl Street Infants' 166 20 47 85 Fane Street Senior 894 180 525 417 Grosvenor Senior (Closed June) 45 14 33 25 Linfield Junior 364 71 215 333 Linfield Senior 699 89 282 283 Mabel Street Junior 342 93 289 432 Mago Street Junior 452 108 43 145 203 Mariners' 290 39 92 119 Mayo Street Junior 452 108 339 476 McQuiston 322 82 257 332 Northumberland Street 349 79 226	Botanic							
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Earl Street Girls'. 124 12 35 48 Earl Street Girls'. 166 20 47 85 Fane Street Inlants' 166 20 47 85 Fane Street Senior 894 180 525 417 Grosvenor Senior (Closed June) 45 14 33 25 Linfield Junior 364 71 215 333 Linfield Senior 699 89 282 283 Mabel Street Junior 342 93 289 432 Magdalene Junior 168 43 115 450 508 Mariners' 290 39 92 119 Mayo Street Junior 452 108 339 92 119 Mayo Street Junior 332 82 257 332 Northumberland Street 349 79 226 336 Ormeau Road Junior 221 77 275 397 Percy Street Junior 238 68 236 276 Porters' Senior 315 57 202 202 Queen Victoria 457 124 373 438 St. Anthony's Boys' 227 36 79 113 St. Anthony's Boys' 227 36 79 St. Bride's 171 39 107 140 St. Bride's 171 39 107 140 St. Bride's 171 39 107 140 St. Compail's Girls' 513 83 169 251 St. Comgail's Girls' 497 83 211 315 St. Finian's 522 89 263 339 St. Gall's . 498 113 308 397 St. John's Boys' 318 54 147 203 St. John's Boys' 318 54 147 203 St. John's Girls' 318 552 89 263 339 St. Mary's Christian Brothers' 418 112 318 397 St. Mary's Christian Brothers' 418 112 318 397 St. Mary's Girls' 109 34 85 122 St. Mary's Christian Brothers' 418 112 318 397 St. Mary's Girls' 109 34 85 122 St. St. Mary's Girls' 109 34 85 122 St. St. Saviour's Senior 109 34 85 122 St. Saviour's Senior 109 33 52 56 56 54 105 171 St. Vincent's 109 34 85 122 St. Saviour's Senior 109 31 52 56 56 57 Saviour's Senior 109 31 58 57 22 33 1943 St. Teresa's (Outside Boundary) 602 46 166 189	Brown Street							
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Earl Street Infants'								
Fane Street Senior (Closed June)								
Linfield Junior	Fane Street Senior				894	180		417
Linfield Sentor 699 89 282 283 Mabel Street Junior 342 93 289 432 Magdalene Junior 168 43 145 203 Malone 437 115 450 508 Mariners' 290 39 92 119 Mayo Street Junior 452 108 339 476 McQuiston 332 82 257 332 Northumberland Street 349 79 226 336 Ormeau Road Junior 221 777 275 397 Percy Street Junior 238 68 236 276 Porters' Senior 315 57 202 202 Queen Victoria 457 124 373 488 St. Anthony's Boys' 227 36 79 113 St. Anthony's Girls' 214 29 67 88 St. Brendan's 219 34 74 142 St. Bride's 171 39 107 St. Catherine's 458 114 329 446 St. Columcille's 73 10 17 22 St. Comgall's Girls' 497 83 211 St. Finian's 522 89 263 St. Gall's 498 113 308 397 St. John's Girls' 318 54 147 203 St. John's Girls' 318 54 147 203 St. John's Girls' 318 54 147 203 St. Joseph's Girls' 318 54 147 203 St. Joseph's Girls' 318 54 147 203 St. Joseph's Girls' 300 77 187 310 St. Joseph's Girls' 300 77 187 310 St. Joseph's Girls' 318 54 147 203 St. Joseph's Girls' 300 77 187 310 St. Mary's Christian Brothers' 418 112 St. Mary's Christian Brothers' 418 112 St. Partick's 184 56 119 St. Saviour's Infants' 309 79 St. Saviour's Infants' 309 79 St. Saviour's Infants' 309 79 St. Saviour's Senior 333 58 St. Saviour's Senior 333 58 St. Saviour's Girls' 322 St. Saviour's Girls' 322 St. Saviour's Senior 333 58 St. Saviour's Girls' 323 233 St. Verticute 188 St. Teresa's (Outside Boundary) 78 St. Saviour's Gi	Grosvenor Senior (Close	ed June	e)					
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Malone 437 115 450 508 Mariners' 290 39 92 119 Mayo Street Junior 452 108 339 476 McQuiston 332 82 257 332 Northumberland Street 349 79 226 336 Ormeau Road Junior 221 77 275 397 Percy Street Junior 238 68 236 276 Porters' Senior 315 57 202 202 Queen Victoria 457 124 373 438 St. Anthony's Boys' 227 36 79 113 St. Anthony's Girls' 214 29 67 88 St. Brendan's 219 34 74 142 St. Anthony's Girls' 219 34 74 142 St. Catherine's 458 114 329 446 St. Catherine's 458 114 329 446								
Mayo Street Junior					437	115	450	508
McQuiston			• •	• •				
Northumberland Street								
Ormeau Road Junior 221 77 275 397 Percy Street Junior 238 68 236 276 Porters' Senior 315 57 202 202 Queen Victoria 457 124 373 438 St. Anthony's Boys' 227 36 79 113 St. Anthony's Girls' 214 29 67 88 St. Anthony's Girls' 219 34 74 142 St. Brendan's 219 34 74 142 St. Bride's 171 39 107 140 St. Comgall's Boys' 513 83 169 251 St. Comgall's Girls' 497 83 211 315 St. Finian's 522 89 263 330 St. Gall's 498 113 308 397 St. John's Boys' 318 54 147 203 St. John's Girls' 363 86 220 279								
Percy Street Junior 238 68 236 276 Porters' Senior 315 57 202 202 Queen Victoria 457 124 373 438 St. Anthony's Boys' 227 36 79 113 St. Anthony's Girls' 214 29 67 88 St. Bride's 171 39 107 140 St. Enride's 171 39 107 140 St. Columcille's 73 10 17 22 St. Comgall's Boys' 513 83 169 251 St. Comgall's Girls' 497 83 211 315 St. Finian's 522 89 263 330 St. Gall's 498 113 308 397 St. John's Boys' 318 54 147 203 St. John's Boys' 318 54 147 203 St. Joseph's Boys' 317 97 187 310								
Porters' Senior 315 57 202 202 Queen Victoria 457 124 373 438 St. Anthony's Boys' 227 36 79 113 St. Anthony's Girls' 214 29 67 88 St. Brendan's 219 34 74 142 St. Eride's 171 39 107 140 St. Eride's 171 39 107 140 St. Catherine's 458 114 329 446 St. Columcille's 73 10 17 22 St. Comgall's Boys' 513 83 169 251 St. Comgall's Girls' 497 83 211 315 St. Finian's 522 89 263 330 St. Gall's 498 113 308 397 St. John's Girls' 363 86 220 279 St. John's Girls' 363 86 220 279 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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St. Joseph's Boys' 317 97 187 310 St. Joseph's Girls' 300 71 118 193 St. Kevin's Boys' 613 222 544 767 St. Kevin's Girls' 630 225 558 723 St. Mary's Christian Brothers' 418 112 318 397 St. Mary's Boys' 109 34 85 122 St. Mary's Girls' 145 29 56 93 St. Mary's 323 104 285 347 St. Patrick's 184 56 119 191 St. Paul's Boys' 483 106 250 303 St. Paul's Girls' 147 8 14 26 St. Peter's Boys' 265 54 105 171 St. Peter's Girls' 322 92 207 268 St. Saviour's Infants' 309 79 179 262 St. Saviour's Senior 333 58 122 215 St. Simon's 482 120 384 416 St. Vincent's 759 205 619 777 Sandy Row Junior 109 13 52 56		• •	• •	• •				
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St. Kevin's Boys' 613 222 544 767 St. Kevin's Girls' 630 225 558 723 St. Mary's Christian Brothers' 418 112 318 397 St. Mary's Boys' 109 34 85 122 St. Mary's Girls' 145 29 56 93 St. Mary's. 323 104 285 347 St. Patrick's 184 56 119 191 St. Paul's Boys' 483 106 250 303 St. Paul's Girls' 147 8 14 26 St. Peter's Boys' 265 54 105 171 St. Peter's Girls' 322 92 207 268 St. Saviour's Infants' 309 79 179 262 St. Saviour's Senior 333 58 122 215 St. Vincent's 759 205 619 7777 Sandy Row Junior 109 13 52 56 Springfield 449 126 419 477 Stranmillis 204 57 223 233 Ulsterville 572 231 943 1,137 Work	St. Joseph's Girls'							
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St. Mary's Boys' 109 34 85 122 St. Mary's Girls' 145 29 56 93 St. Mary's 323 104 285 347 St. Patrick's 184 56 119 191 St. Paul's Boys' 483 106 250 303 St. Paul's Girls' 147 8 14 26 St. Peter's Boys' 265 54 105 171 St. Peter's Girls' 322 92 207 268 St. Saviour's Infants' 309 79 179 262 St. Saviour's Senior 333 58 122 215 St. Simon's 482 120 384 416 St. Vincent's 759 205 619 777 Sandy Row Junior 109 13 52 56 Springfield 449 126 419 477 Stranmillis 204 57 223 233 Ulsterville 572 231 943 1,137 Workman	St. Kevin's Girls'							
St. Mary's Girls' 145 29 56 93 St. Mary's 323 104 285 347 St. Patrick's 184 56 119 191 St. Paul's Boys' 483 106 250 303 St. Paul's Girls' 147 8 14 26 St. Peter's Boys' 265 54 105 171 St. Peter's Girls' 322 92 207 268 St. Saviour's Infants' 309 79 179 262 St. Saviour's Senior 333 58 122 215 St. Simon's 482 120 384 416 St. Vincent's 759 205 619 777 Sandy Row Junior 109 13 52 56 Springfield 449 126 419 477 Stranmillis 204 57 223 233 Ulsterville 572 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Bo			• • •					
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St. Peter's Boys' 265 54 105 171 St. Peter's Girls' 322 92 207 268 St. Saviour's Infants' 309 79 179 262 St. Saviour's Senior 333 58 122 215 St. Simon's 482 120 384 416 St. Vincent's 759 205 619 777 Sandy Row Junior 109 13 52 56 Springfield 449 126 419 477 Stranmillis 204 57 223 233 Ulsterville 572 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Boundary) 602 46 166 189 Paralanda 7 13 9			• •			II.		
St. Peter's Girls' . 322 92 207 268 St. Saviour's Infants' . 309 79 179 262 St. Saviour's Senior . 333 58 122 215 St. Simon's . 482 120 384 416 St. Vincent's . 759 205 619 777 Sandy Row Junior . 109 13 52 56 Springfield . 449 126 419 477 Stranmillis . 204 57 223 233 Ulsterville . 572 231 943 1,137 Workman . 207 48 129 188 St. Teresa's (Outside Boundary) . 602 46 166 189 Parallendary (**) 78 7 13 9						II.		
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St. Saviour's Senior 333 58 122 215 St. Simon's 482 120 384 416 St. Vincent's 759 205 619 777 Sandy Row Junior 109 13 52 56 Springfield 449 126 419 477 Stranmillis 204 57 223 233 Ulsterville 572 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Boundary) 602 46 166 189 Paralanda 7 13 9	St. Saviour's Infants'					79	179	262
St. Simon's 482 120 384 416 St. Vincent's 759 205 619 777 Sandy Row Junior 109 13 52 56 Springfield 204 57 223 233 Stranmillis 572 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Boundary) 602 46 166 189 Parallanda					333	58.		
Sandy Row Junior 109 13 52 56 Springfield 449 126 419 477 Stranmillis 204 57 223 233 Ulsterville 572 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Boundary) 602 46 166 189 Paralanda 7 13 9	St. Simon's							
Sandy 16W James 449 126 419 477 Springfield 204 57 223 233 Stranmillis 572 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Boundary) 602 46 166 189 Parallel de 7 13 9								
Stranmillis 204 57 223 233 Ulsterville 207 231 943 1,137 Workman 207 48 129 188 St. Teresa's (Outside Boundary) 602 46 166 189 Parallenda .								
Ulsterville					204	57	223	
St. Teresa's (Outside Boundary) 602 46 166 189	Ulsterville							
Proceedings (Outside Boundary)						U		
Roselands (),) /o			ry)					
Other Schools (",) – 1 1 1 —		")			H	1	

Attendances at Dental Clinics (continued)

School	Total on Rolls	Children attending Clinic	Total Clinic attendances	Total treatments
ELEMENTARY SCHOOLS: AREA 2				
Alexandra	330	71	157	233
	241	128	424	494
	209	40	95	141
	1,036	490	1,794	2,199
	711	260	725	981
	364	104	264	416
	301	85	240	35 7
	209 577	75	217	318
	0.40	174 252	399 777	52 9 982
Tr. 1	CTE	192	565.	982 762
D II D'	E 40	213	714	943
	010	79	199	331
C1 1	501	71	172	221
C	791	241	710	979
II	621	94	237	307
TT:11	492	145	436	599
III C D /	861	168	452	695
II. lin Carro Cimin?	757	162	497	708
II 1 - F 11 - D 2	303	73	213	268
II die Tressitie Cielei	230	57	224	261
T - CC -	275	58	210	283
John White Junior	557	120	336	541
	268	73	157	269
	345	91	325	465
	502	144	515	491
	504	217	740	813
	790	86	334	316
	169	52	108	179
	270	93	270	419
	319	70	157	252
	435	- 63	211	251
	394	133	350	478
	477	192	527	659
	124	44	103	140
	222	58	150	167
St. Mark's	309 552	79	200	274
0. 35 1 0. CO D	070	120	370 61	497 97
Ch Mannia Chan of Can Cinla'	050	32	76	117
Ct. Datailala Chaintina Danthama	471	142	356	496
Ct. Dodaniala's Danas'	471	69	152	- 188
Ct Dataial-la Ciula	227	42	81	. 89
C+ Doulle	265	30	108	147
C4 Winnerst J. Devil's Dess'	134	17	51	53
St Vincent de Deul'e Cirle'	123	12	27	31
Convious	689	236	813	968
C1	465	112	430	399
Star of Sea Boys'	225	32	100	126
C4	232	34	98	104
Whitehouse Junior	274	63	232	327
Whitehouse Senior (Closed)	. -	3	20	13
	172	19	47	65
	407	123	358	490
Sahaala (Outaida Darradama)	-	5	24	30
Schools (Outside Boundary)		2	5	3

Attendances at Dental Clinics (continued)

A CAMPAGE OF THE PROPERTY OF T				
School	Total on Rolls	Children attending Clinic	Total Clinic attendances	Total treatments
DY DYDYD I D				
ELEMENTARY SCHOOLS: AREA 3				
Avoniel Junior	702	245	734	950
Beechfield	655	188	515	741
Belmont Junior	333	108	420	510
Belvoir Hall Junior	346	63	189	261
Bloomfield	271	102	292	427
Christian Brothers'	235	63	191	251
Elmgrove	1,004	371	1,249	1,568
Euston Street Junior	305	168	659	829
Euston Street Senior	754	219	704	861
Harding Memorial	862	388	1,608	1,740
Lagan Village	121	17	48	70
Lomond Avenue	140	43	150	198
Megain Memorial	484	187	457	700
Memel Street Junior	117	51	106	151
Manager Street	926	230	525	825
3.6	450	179		
N 41. II	97	11	688	701
Name worth Tandama	149	_		
37 (1) 6 11	850	950	1 001	1.540
		356	1,361	1,743
Orangefield Ormeau Park	518	170	791 500	802
	429	138	520	578
Park Parade	598	137	435	468
Ravenhill Road Junior	282	112	376	428
Rosario Boys'	137	59	208	219
Rosario Girls'	165	60	199	271
Rosetta	622	211	955	887
Roslyn Street Junior	133	56	152	170
St. Anthony's Boys'	169	53	171	200
St. Anthony's Girls'	185	47	159	184
St. Colman's	309	90	213	283
St. Comgall's Boys'	91	19	36	68
St. Comgall's Girls'	133	35	65	109
St. Joseph's Boys'	119	32	111	121
St. Joseph's Girls'	82	25	89	86
C1 T 13.	299	138	417	459
St Malachy's Convent	457	74	168	
C4 Ma44havy's Dava'	439	37		197
			112	109
St. Matthew's Girls'	481	58	158	146
Strand	828	251	928	1,035
Strandtown	1,171	514	2,030	2,116
Templemore Avenue	940	212	651	752
Gilnahirk (Outside Boundary)	90	6	42	44
Other Schools	- 1	4	11	9
SPECIAL SCHOOLS:				
Haypark (Area 3)	190	79	275	318
Victoria Homes (Area 3)	*	32	122	66
(* Included in Strandtown)				
NURSERY SCHOOLS:				
Arellian (Area 1)	60	1	5	7
Edenderry (Area 2)	60	7	16	28
			1	
OPEN AIR SCHOOLS:				
Graymount (Area 2)	136	21	58	55
Gray mount (rind 2)	100			00
SECONDARY SCHOOLS:				
Grosvenor High (Area 1)	653	86	322	376
Technical High (Area 1)	520	101	319	354
SECONDARY GRAMMAR SCHOOLS:				
		10	70	50
(Area 1)		10	73	73
INDIATEDIAL COLLOCIO				
INDUSTRIAL SCHOOLS:				
Balmoral (Area 2)	104	73	90	138
BLIND, DEAF AND DUMB SCHOOLS:				
(Area 1)		1	1	_
(Area 2)	48	2	3	_
(Area 2)		_ 1	_	_
	CO CCC	10.700	50.177	CE 005
TOTALS (All Areas and Schools)	62,960	16,799	52,177	65,035
	86			

TREATMENT AT CLINICS

Dental treatment sessions to a total of 3,793 were provided at our clinics during the year. Of these, 615 were required for extractions, the balance of 3,178 being devoted to conservative measures. Slightly over 90% of the officers' time is therefore devoted to duty in clinics as compared to 10% required for Dental inspection in Schools.

Each child having treatment averaged 7.2 treatments throughout the year, and those who made regular routine visits were given an average of 3 check-up inspections. The child who attends periodically, as advised, consequently derives considerable dental benefit.

Totals in the various categories of treatment can be seen in the Table provided. There is naturally a yearly fluctuation in these totals according to the needs of the patient. Thus, a substantial increase in the number of extractions required, resulted in a slight fall in the total number of filling treatments accomplished, namely 2.3%. Nevertheless the staff maintained the expected average of 7.5 fillings per session, and recorded a resultant total of 23,750 filling treatments for

Statistical Tables: Attendances—Payments—Treatments

ITEMS	Area 1	Area 2	Area 3	Totals
ATTENDANCES AT CLINICS: INDIVIDUALS (Clinical Inspections)	2,750	2,131	2,894	7,775
	3,670	2,624	2,715	9,009
tives on Rolls) TOTAL INDIVIDUALS	(21.9)	(14.8)	(20.2)	(18.7)
	5,199	6,004	5,595	16,798
	(23.6)	(26.7)	(31.7)	(27.0)
	3,049	2,564	2,302	7,915
	(16.7)	(17.5)	(11.9)	(15.2)
	15,174	12,126	16,962	44,262
	(83.3)	(82.5)	(88.1)	(84.8)
	18,223	14,690	19,264	52,177
PAYMENTS: Free Treatments	24 (1.2) £101 7s.	6 (0.6) £47 17s.	(0.2) £87 19s.	34 (0.7) £237 3s.
TREATMENTS: EXTRACTIONS— (Temporary Dentition)	8,010	7,030	7,067	22,107
	987	906	667	2,560
	8,997	7,936	7,734	24,667
	(38.5)	(41.6)	(34.2)	(37.9)
ANAESTHETICS— (Local)	88	107	109	304
	4,142	3,539	3,619	11,300
	4,230	3,646	3,728	11,604
	(18.1)	(19.1)	(16.5)	(17.8)
FILLINGS— (Temporary Dentition)	954	714	1,310	2,978
	7,510	5,292	7,970	20,772
	8,464	6,006	9,280	23,750
	(36.3)	(31.5)	(41.0)	(36.5)
RESIDUAL TREATMENTS—	173	139	193	505
	161	150	248	559
	58	42	61	161
	1,100	1,138	1,347	3,585
	163	20	21	204
	—	—	—	—
	1,655	1,489	1,870	5,014
	(7.1)	(7.8)	(8.3)	• (7.7)
	7,833	6,287	9,070	23,190
TOTAL TREATMENTS	23,346	19,077	22,612	65,035

Statistical Tables: Sessions-Averages-Staff

ITI	ΞM				All Areas
REATMENT SESSIONS (Half-day)—	-				
Extraction and Anaesthetic Filling and Other Treatments	••				 615 3,178
REATMENT AVERAGES (Staff)—					
Anaesthetic Cases Fillings		(Per (Per (Per (Per (Per (Per	Session) Anaesthetic; Session) Session) Filling Sessi Treatment S Surgeon)	on)	 40.1 2.1 18.9 7.5 0.4 6.1 5217.7 901.0
REATMENT AVERAGES (Children)-	_				
Extraction Treatments Anaesthetic Treatments Filling Treatments Residual Treatments TOTAL TREATMENTS		(Per (,, (,, (,,	Child Treate	ed)))	 2.7 1.3 2.6 0.6 7.2
LINICAL INSPECTIONS (Average pe	r Child	l insp	ected)—		 3.0
TAFF COMPLEMENT (Full-time)—					
Dental Clinic Nurses Dental Attendants (Administrat Dental Attendants (Reception)					 1 10 3 1 3 10 28

the year. Total treatments in all categories numbered **65,035**, an **11.3**% increase over the previous year. This total, made possible by the appointment of additional staff, is the highest figure yet reached in the history of the service. It, however, falls far short of the total yearly treatments required to give an adequate service to the children.

The installation of dental X-ray equipment during the year, has proved a definite acquisition in respect of dental diagnosis, and has thereby effectually extended the efficiency of the treatments provided.

Statistical Tables: Comparative Main Totals

SCHOOL DENTAL INSPECTION: CPer	
Schools visited 158 160 160 Number of Visits. 370 388 400 (+) Number of Inspection Sessions 340 358 384 (+) Number of Inspection 52,480 57,965 60,545 (+) (15.2%) (15.2%) (15.3%) (-) Refusing Inspection 19 11 17 (-) 11 18 19 11 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 19 11 11 19 11 19 11 19 11 19 11 19 11 19 11 11 19 11 19 11 19 11 19 11 19 11 19 11 11 19 11 19 11 19 11 19 11 19 11 19 11 11 19 11 11	948 pared 94 7
Schools visited 158 160 160 Number of Visits 370 388 400 (+) Number of Inspection Sessions 340 358 384 (+) Number of Inspection 52,480 57,965 60,545 (+) 388 400 (+) Number of Inspection 52,480 57,965 60,545 (+) 11 17 (-) 11 18 17 (-) 11 18 17 (-) 11 18 17 (-) 18 18 18 18 18 18 18 1	cent.)
Number of Visits	centing
Number of Inspection Sessions	—
Children Notified for Inspection	3.1
## Absent from Inspection ## (18.3%) ## (18.2%) ## (18.3%) ## (18	7.3
Refusing Inspection 19	4.4 1.9
Inspected 45,473 49,108 52,464 40,725 (+) 2, Defective 37,792 39,364 40,725 (+) 2, Defective (Per cent.) (83.1) (80.2) (77.6) (-)	1.9
Defective (Per cent.)	6.8
Defective (Per cent.) (83.1) (80.2) (77.6) ()	3.5
Notified as Defective 24,248 27,933 28,360 (+)	2.6
Notified as Defective 24,248 27,933 28,360 (+)	
PARENTS' RESPONSE TO NOTIFICATION: C	
Refusing Treatment (per cent.)	1.5
Refusing Treatment (per cent.)	2.2
No Response (per cent.).	
No Response (per cent.).	2.4
Consenting to Treatment— TOTAL (per cent.)	$\frac{2.4}{3.1}$
TOTAL (per cent.)	0.1
By own Dentist	5.5
Appointments Issued— (Post Inspection)	0.3
Appointments Issued— (Post Inspection)	0.3
Post Inspection	
Per cent. Clinic Applications. (100.0) (14.0) (14.	
Per cent. Clinic Applications.	9.7
Per cent. Defectives Inspected (30.2) (40.8) (43.2) (+)	_
New Patients (per cent.)	4.6
New Patients (per cent.)	2.4
Previous Patients (per cent.) (84.5) (85.5) (84.8) (—) TOTAL PATIENTS 45,291 47,400 52,177 (+) Individuals 14,600 15,458 16,798 (+) PAYMENTS: (29.2) (31.8) (34.8) (+) PAYMENTS: 202 172 34 (—) Charges 202 172 34 (—) TREATMENTS: Extractions— 4825 12s. £237 3s. (—) TEMPORATE Dentition 17,192 17,340 22,107 (+) Permanent Dentition 2,346 2,568 2,560 (—) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— 448 413 304 (—) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition	
TOTAL PATIENTS 45,291 47,400 52,177 (+) Individuals 14,600 15,458 16,798 (+) (per cent. of Roll Defectives) (29.2) (31.8) (34.8) (+) PAYMENTS: 202 172 34 (-) Charges £832 0s. £825 12s. £237 3s. (-) TREATMENTS: 2 17,192 17,340 22,107 (+) Permanent Dentition 2,346 2,568 2,560 (-) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— 448 413 304 (-) Local 448 413 304 (-) TOTAL 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— 8,769 9,700 11,604 (+)	0.7
Individuals	0.7
PAYMENTS: 202 172 34 (-) Charges . </td <td>10.1</td>	10.1
PAYMENTS: Free Treatments	8.7
Free Treatments	3.0
Charges £832 0s. £825 12s. £237 3s. (—) TREATMENTS: 17,192 17,340 22,107 (+) Temporary Dentition 17,192 17,340 22,107 (+) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— Local 448 413 304 (—) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition 2,476 3,045 2,978 (—) Permanent Dentition 2,476 3,045 2,978 (—) Permanent Dentition 2,476	
TREATMENTS: Extractions— 17,192 17,340 22,107 (+) Permanent Dentition 2,346 2,568 2,560 (—) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— 448 413 304 (—) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition 21,001 21,253 20,772 (—)	80.2
Extractions— Temporary Dentition 17,192 17,340 22,107 Permanent Dentition 2,346 2,568 2,560 (—) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— Local 448 413 304 (—) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition 21,001 21,253 20,772 (—)	71.3
Temporary Dentition 17,192 17,340 22,107 (+) Permanent Dentition 2,346 2,568 2,560 (-) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— 448 413 304 (-) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— 2,476 3,045 2,978 (-) Permanent Dentition 21,001 21,253 20,772 (-)	
Permanent Dentition 2,346 2,568 2,560 (—) TOTAL 19,538 19,908 24,667 (+) Anaesthetics— 448 413 304 (—) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— 2,476 3,045 2,978 (—) Permanent Dentition 21,001 21,253 20,772 (—)	
TOTAL 19,538 19,908 24,667 (+) Anaesthetics— 448 413 304 (-) General 8,321 9,287 11,300 (+) TOTAL 8,769 9,700 11,604 (+) Fillings— 2,476 3,045 2,978 (-) Permanent Dentition 21,001 21,253 20,772 (-)	27.5
Anaesthetics— Local	0.3
Local	23.9
General	26.4
TOTAL 8,769 9,700 11,604 (+) Fillings— Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition 21,001 21,253 20,772 (—)	21.7
Fillings— Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition	19.6
Temporary Dentition 2,476 3,045 2,978 (—) Permanent Dentition 21,001 21,253 20,772 (—)	23.0
Permanent Dentition	2.2
	2.3
TOTAL	2.3
Dressings (Tooth)	13.1
Polishings	20.1 15.7
Scalings	18.0
Clinical Inspections	13.6
TOTAL TREATMENTS 57,861 58,415 65,035 (+)	11.3
,, Individuals Treated 9,043 8,748 9,009 (+)	3.0
,, ,, (per cent. Roll Defectives) (18.0) (18.0) (18.7) (+)	0.7

Summarised Dental Report*

Section (I)		_		
	children on school	ol rolls	62,960	
	f children inspecte		0_,000	
officers			52,464	
Number o	f children special	lly inspected	0=,101	
(in clinic	cs)		23,190	
TOTAL in			75,654	
	und to require tre	atment	40,725	
4. Number ac	tually treated (inc	dividuals)	9,009	
	e made by childre		0,000	
ment	and by omital		28,987†	
	devoted to inspect	ion	384	
	devoted to treatm		3,793	
TOTAL			4,177	
	ermanent teeth) .		20,772	
Fillings (te	mporary teeth) .		2,978	
TOTAL			23,750	
	s (permanent teetl		2,560	
	s (temporary teeth		22,107	
TOTAL	o (comporary coor		24,667	
	tion of general an		11,300	
10. Polishings			559	
11. Scalings			161	
12. Other opera	ations		4,294†	t
Section (II)			1,201	•
	Iain Report Statis	stics).		
Section (III)	zam ztoport otatio			
(Nil).				
(/ -				

* As prescribed by Ministry of Health and Local Government.

† Total Clinic Attendances—52,177.

†† Total Treatments-65,035.

GENERAL REMARKS

From the statistics available it is possible to obtain a fairly accurate picture of the service, both as regards its present capacity and future requirements. For instance, during the past year, to provide each child with one yearly school dental inspection, clinical check-up inspections and the necessary treatments for dental fitness, one dental officer per each 5,218 patients or per each 900 actual individuals requiring treatment, was found necessary. Approximately 80% of the children inspected each year require treatment. Allowing for the fact that 13% of the children were absent from inspection, that only 70% were notified subsequently as defective, that approximately 14% refused to have treatment, and that 21% preferred to seek treatment by private practitioners, it would still have been necessary to provide a staff of 20 dental officers, to give adequate treatment throughout the year to the total number of children who desired it at our clinics.

In awareness that the Section is only capable of meeting about 50% of current demand, I submitted for approval and inclusion in estimates, certain proposals for extension of the dental service, viz, that the staff of Assistant Officers should be increased from ten to seventeen; that there should be provision for the appointment of an X-ray dental officer, an orthodontic dental officer and a dental technician; that provision should be made in respect of dental anaesthetics and that the necessary subsidiary attendance staff should be appointed.

As our clinic accommodation is totally inadequate, proposals were also put forward for the erection of a building of a semi-permanent prefabricated nature, which could be rapidly brought into being, and which would accommodate the proposed clinical expansion of the service, pending any future long-term policy in respect of permanently built clinics. I am glad to record that approval was duly given to all these proposals.

It would seem appropriate that some reference should be made to the coming into operation of the Health Services Act in July of the current report year. It could have been reasonably surmised that as free dental treatment was then available for children from private practitioners, a considerable drop in demand at

our clinics would result. On the contrary, and largely due to the inability of private practitioners to meet the enormously increased public demand on their services, our clinics experienced a sudden and still further embarrassing demand for treatment. Waiting lists, already overburdened, expanded to alarming proportions, so that the need for extra staff and clinic accommodation became more pressing than ever. In these circumstances, the granted approvals for expansion of the dental service were doubly welcome.

In spite of this however, pessimism unfortunately prevails. That we are now faced with a possible desertion of our surgical staff to the more lucrative conditions obtaining in private practice, seems inevitable. Until the remuneration of Public Dental Officers is placed upon a more comparable basis there seems to be little hope of securing the additional staff we so urgently require. In fact, resignations from our staff may mean a drastic curtailment in the service we already provide. It is tragic that the local School Dental Service, creditably provided and formidably built up over the past twenty-five years, should disintegrate for this reason, particularly when the service for children, and especially young children, stands as a fundamental factor, and thereby constitutes a priority, as regards the dental health of the community.

In conclusion, I beg to express thanks to all those who, by their energy and co-operation, have helped to keep the Section faithfully functioning throughout the year.

I remain, Sir,

Yours faithfully,

(Signed) A. S. IRVING, L.D.S., R.C.S., Edin., Senior Dental Officer.

TONSIL AND ADENOID OPERATIONS

In a previous report it was stated that we had bad to discontinue our Tonsil and Adenoid operations because the premises used were being reconditioned. After some months this work was completed and operation work was resumed. Prior to the 5th July we had been responsible for the cost of the surgeon and for the reimbursement of the Musgrave Park Hospital for the maintenance and other costs of this service.

After that date, the Hospitals Authority took over our responsibility. All we were called upon to do was to arrange for the admission of a certain number of pupils every week. In due course they were discharged to us by ambulance to a suitable clinic and, in time, were re-inspected by the surgeon concerned to see that everything was all right and, if necessary, to give such other treatment as the patient required.

In this way during the year, 200 children have had operative treatment and resumed school activities. The private practitioner was notified of the admission of the patient to hospital.

ULTRA-VIOLET LIGHT THERAPY

The clinics for this form of treatment have been utilised as much as previously, there being a slight increase in the attendances which reached 5,681.

The new types of lamp installed have meant a considerable saving in staff time without any reduction in the number of children treated.

MINOR AILMENT TREATMENT

During the year there has been a marked reduction in the number of scholars suffering from minor ailments presenting themselves for treatment. The attendances only totalled 5,606, a reduction of 25 per cent. A year previously we had an epidemic of ringworm and this reduction has been in part due to the cessation of this infection.

CHILD GUIDANCE

During the year 166 cases were reported to the Child Guidance Clinic which is held in the Royal Belfast Hospital for Sick Children. Of these, 104 were considered definitely in need of guidance and 62 of Speech Therapy. Most of the latter were referred before our Speech Therapist took up duty, and any referred since were in age groups outside our present scheme, or required some individual attention which we could not give in our groupings.

The extension of free treatment to this group of cases, first under the terms of the Education Act, 1947, and then under the Health Services Act, has helped very considerably to get parents to co-operate. In very many of these cases it was the parents' attitude, or the home conditions, which required attention and alteration. Naturally they resented having to pay for their own "correction."

SPEECH THERAPY

In the autumn our Speech Therapist took up duty, and the first steps towards organising a limited service were taken by contacting the teachers, advising them of this development, and requesting the names of pupils whom they considered suitable for treatment. This was not easy, as it appeared many did not appreciate the type of case to be handled. In any case, each school had to be be visited to select suitable cases, and to group these into districts.

The schools nearest the selected centres were given priority to start with, though particular cases from outlying schools were provided for when possible. At the same time, selected schools were visited to arrange for suitable accommodation to be made available for speech therapy. Due regard was given to heating, ventilation, lighting, floor space, and accessibility of the chosen centre to other schools in that district. The chief difficulty was to get a room which could be used for a whole day at a time, and at the same hours each week, without any disturbance from school or other staff.

Eventually, ten centres were selected: for the North West area, Everton, Finiston and Grove; for the Central and South area, Fane Street, Linfield Intermediate and St. Comgall's; for the East side, Beechfield, Elmgrove and Oakleigh Schools. Not all these could be started at once, as we had to build up groups of pupils. Each had to be medically inspected, then the parents and children interviewed by the Speech Therapist, and a full case history built up. Eventually, by December the first centre was opened at Everton and the details for others made ready for opening in the New Year.

The statistical details are:—

Schools visited in search for accommodation	 32
Schools visited for inspection of speech defectives	 59
Children interviewed in schools	 601
Case histories taken	 31
Children accepted for immediate treatment	 20

PHYSIO-THERAPY

In the last quarter of the year we started to organise classes for pupils requiring physio-therapy. From time to time previously, grosser conditions were referred to the orthopaedic clinics, but with the appointment of a physio-therapist, we could undertake the treatment of the lesser degrees of defect.

Our first task was to find suitable premises in which to hold our clinics, as there was no spare room in the schools which we could utilise. The first requirements of any centre was a smooth floor, together with ventilation, light and some source of heat. This limited our choice and delayed progress. Meantime, we commenced one centre in Cherryville Clinic to enable us to transfer the patients to one closer to their homes. Equipment, and presses in which to store it, had to be assembled.

Gradually, groups of children were examined, and allotted to the various centres. The second one opened at the beginning of November, and thereafter three others followed within a month, so that, by the end of the year, five centres were in operation, and 471 pupils were undergoing treatments.

HEAD CLEANSING

Although the introduction of new preparations which are capable of controlling head infestation, has had some effect on the incidence of head lice, yet the stricter standard set up has caused a larger number to be referred to the clinics for disinfestation. During the year 6,431 visits were paid by children coming for head cleansing, this being an increase of 53% on the figure for the previous year. Unfortunately, we are unable to get the younger and older contacts to come for cleansing at the same time, and so remove entirely the source of re-infection which is ever present as things are now.

PHYSICAL EDUCATION

The development of physical education in the schools has been held up because of several factors. Speaking generally these comprise the differing types of school, the accommodation available, the reaction of the teachers to the new programme and the lack of equipment.

In our large and more modern schools there is more playground space to be found than in the other schools. Use of these depends on the weather but it is always possible to fall back on assembly halls where these exist.

In connection with the use of the latter, it is essential that they should be kept scrupulously clean not only to prevent soiling of the pupils' clothing but to prevent the raising of a cloud of dust which will continue to hover and settle during the time such halls are being used for school meals.

From the medical side it is felt that the time provided in the programme for physical education is still inadequate especially for the primary schools. The new regulations for intermediate schools provide for periods of forty minutes each per week. There does not seem to be reason why comparable periods could not be arranged for those in the primary division who need this as much as those in the intermediate schools.

INFECTIOUS DISEASES

The over all picture of the incidence of infectious disease during 1948, is quite satisfactory. Chickenpox has certainly occurred throughout the year, but not to such an extent as to be classified as of epidemic proportions. Odd schools continued to be affected by measles, and they were the nidus for an aggregation of cases towards the end of the year in their localities. Concurrent with this came an increase in the number of mumps cases, and some whooping cough, but the incidence of the latter throughout the year was very low.

Scarlet fever and diphtheria affected school attendances to a negligible degree, and so long as the former remains of the mild type, and there is immunisation against diphtheria at the present high level, we need expect little trouble from these infections in the future.

HANDICAPPED PUPILS

In the accompanying Table is set forth a classification and the number of handicapped pupils known to us. It indicates the special educational treatment which they are receiving or of which they are in need.

The Tables previously used have been revised to give a truer picture of the types catered for and the extent of the provision made. The figures given for certain groups cannot be taken as final because there has been a break in the notifications on which we previously relied, and we have had to try and get information through alternative sources which are less reliable. The lack of this information prevents us from being able to assess correctly the present provision and to judge whether any extension of existing facilities is necessary.

No Table has been included for children who would receive home tuition because, to date, no organised scheme is in operation. Fourteen cases have been recommended for this form of special educational treatment, but at the close of the year the method of providing it had not been determined.

No apology is made for including in these Tables a group for delicate children. However much some may hold that the title is a misnomer, it still is, to our mind, the best under which to classify those pupils who are the chief concern of the School Medical Officer. Any special provision made, even if it be of the most elementary type, provided it be organised on correct lines and properly administered, will produce sometimes very remarkable results; sufficient in other people's judgement, to make them apply for similar care for cases in which they are interested. We still are handicapped by too few places for this type of child. Such as are available are readily filled by such cases as we discover. We have no need to look to other sources for such as will benefit by special schooling. Hitherto it has been inadvisable to approach general practitioners for recommendations because we would be overwhelmed with applications.

TABLE 10. "Delicate" Pupils

AT	Hospi sc h		Open Air school		P.C.S.		No school		Totals	
GROUPS	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Rheumatism and Chorea	2	1	4	6	87	136	1	1	94	144
Hearts—mild	_	1	1	_	55	51	_	_	56	52
To Glands P.T.C.	11	10	11	2	215	197	7	5	244	214
Debility, Anæmia, Chests, etc	1	_	61 67		237	231	_	2	299	300
TOTALS	2	6	152		. 1,209		16		1,403	

TABLE 11.
Physically Handicapped Pupils

AT School Sana- Open torium Air School School P.C.S. No School											To	Total	
GROUPS	Boys	Girls	Boys	Boys Girls Boys Girls Boys Girls Boys Girls							Boys	Girls	
Hearts— severe	_	2	_	-	_	9	67	73	5	4	72	88	
Tuberculosis: Pulmonary Bone and Gland	21	19	7	10	3	-	26	26	7	6	64	62	
Orthopædic	15	5	_	_	3	2	137	140	12	7	167	154	
Other conditions — — — — 3 2 8 6											_		
TOTALS 62 17 17 474 55										625			
GRAND TOTAL OF TABLES 10 and 11										202	28		

TABLE 12.Handicapped Children

			Boys	Girls	Total
Blind (including partially sighted)	I. Suitable for training in school, or Class for the totally blind	Attending Certified Schools or Classes for the Blind	7	5 —	12
	II. Training in school or class for partially sighted	Attending Certified Schools or Classes for the Blind	12 3 3	17 5 —	29 8 3
Deaf (including deaf and/ or partially deaf)	I. Suitable for training in a school for the totally deaf or deaf and dumb	Attending Certified Schools or Classes for deaf and/or dumb Attending Public Elementary Schools At no school or institution	20 1 4	20 2 1	40 3 5
	II. Suitable for training in school or class for par- tially deaf and/or dumb	Attending Certified Schools or Classes for the deaf	3 3 2	9 1 —	12 4 2
Educationally Sub-normal	I. Educable Group	Attending School for Mentally Sub- normal children	117	81	198
	II. Requiring Special Care	Awaiting Admission	38	17	55
		etc	95	43	138
Epileptics	I. Suffering from severe epilepsy	Attending Certified Special Schools for Epileptics	_		_
		cial Schools At Public Elementary Schools At no school or institution	10 2	6 1	16
	II. Suffering from Epilepsy that is not severe	Attending Public Elementary Schools At no school or institution	30	28	58

MASS RADIOGRAPHY SURVEY

During the year the Mass Miniature Radiography Scheme carried out by the Northern Ireland Tuberculosis Authority, was extended to a survey of primary school children. This radiological examination was carried out in May and August.

The total number of miniature photographs taken was 5,225—boys, 2,676 and girls, 2,549. Of this number 301 volunteers were requested to attend for large film examination and 137 for clinical examination.

The following is a summary of the diagnoses made in the course of the survey: Total number of cases of Pulmonary Tuberculosis dis-Total number of cases of Active Primary Tuberculosis discovered 8 In addition the following non-tuberculous conditions were discovered:— Atypical Pneumonia.. 1 10 Bronchiectasis . . Thickening of Pleura (due to previous pleurisy) 31 Heart Disease (congenital) (2 already known) Heart Disease (acquired) 19. (6 already known)

I am indebted to the Medical Director of the Mass Radiography Centre for the statistical summary of the above survey.

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Deaths of Infants under			- 1 T	C 431	- 300 - 4 - 15	- - D-4	. T.1.1.	
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shewing, for the t						of these	e deaths	
and death-rates, a					-			- 63
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,, Neo-Natal (und	ler one	month)	and N	leo-Nat	al Deatl	hs Rate	s; Table)
shewing for	r the te	n vear	1939-1	948. w	ith an a	nalysis	of these	4
								- 65
deaths and	death-ra	ites, acc	cording	to mort	ality gro	oups -		- 65
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deaths and of the shewing percentage	death-ra the nu of total	ites, acc imber of l numb	cording of deatl er regis	to mort ns at v	ality gro various	oups - age-perio	ds, the	- 65
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